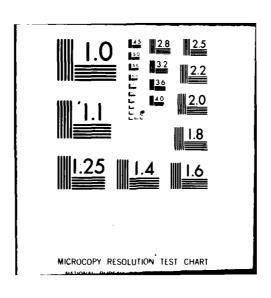
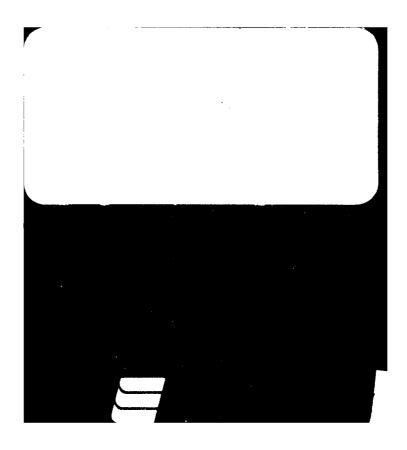
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DTIC FORM 70A

REGIONAL STUDIES FOR VALLEY CLUSTERING

21 August 1981

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FOREWORD

This summary sketch book of valley clustering scenarios in Nevada/Utah was produced at the direction of the AFRCE-MX pursuant to Change Order P00027, Contract No. F04704-80-C-0006.

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1.0 INTRODUCTION

1.0 INTRODUCTION

This document contains three sections. Each pertains to a requested total of shelters as given in the table below:

Section	<u>Shelters</u>
I	4600
II	2300
III	1150

One Area Support Center (ASC) supports shelters within a 65 statute mile radius.

The sketches and tables presented herein identify specific ASC locations by dots and valleys, or portions thereof, by shading. These locations contain sufficient shelters to add up to the requested total (see table above) within 65-mile circles. Initials identify the valley names and, in most cases, are located immediately to the left of the valley sketch.

The table facing each sketch identifies the valley by name and gives the number of shelters considered in the option. The number of shelters after each valley represents (unless specified as 23:1 clustering) the theoretical counts based on valley clustering. All numbers were generated by TRW except in the case of 23:1 clustering.

The total number of shelters available for each of the 36 valleys is shown in Table 1.

Table 2, Data Matrix, identifies the deployment option, the number of shelters, the number of valleys, and ASCs and in 13

TABLE 1 AVAILABLE SHELTER

		VALLEY C	USTERING		23:1 CLUSTERING
		AND WATER		K AND WATER	2/3 HEX
UTAH	OPTION A	OPTION B	OPTION C	OPTION D	OPTION E
Dugway	132	198	114	171	115
Fish Springs Flat	99	148	50	75	46
Pine	249	374	242	363	115
Sevier Desert	142	213	62	93	46
Sevier Lake	70	105	5 7	86	23
Snake	650	975	390	585	437
Tule	367	550	198	297	230
wan Wah	213	320	175	203	115
Whirlwind	291	436	215	322	276
Utah Subtotal	2,213	3,319	1,503	2,255	1,403
NEVADA					
Antelope	125	188	51	76	92
Big Sand Springs	70	105	57	86	69
Big Smoky	430	645	189	284	230
Butte	293	440	264	396	207
Cave	79	118	70	105	69
Coal	219	328	201	302	138
Delamar/Pahroc	170	255	138	207	138
Dry Lake	284	426	267	400	230
Garden	161	242	126	189	138
Hamlin	333	500	186	279	230
Hot Creek	167	250	99	148	138
Jakes	89	134	83	124	69
Kobeh	150	225	8	12	115
Lake	191	286	94	141	161
Little Smoky	195	292	137	206	92
Long	125	188	80	120	92
Monitor	276	414	83	124	138
Muleshoe	81	122	69	104	69
Newark	177	266	96	144	115
Penoyer	212	318	146	219	115
Railroad	455	682	273	410	299
Ralston	312	468	256	384	207
Reveille	91	136	74	111	69
Spring	121	182	68	102	92
Stone Cabin	331	496	159	238	184
White River	398	597	191	286	276
Nevada Subtotal	5,535	8,303	3,465	5,197	3,772
TOTAL	7,748	11,622	4,968	7,452	5,175

TABLE 2
DATA MATRIX
PAGE 1 OF 3

OPTION	NUMBER OF SHELTERS	NUMBER OF VALLEYS	NUMBER OF ASCs	DTN LENGTH (Statute miles)
A1	5332	21	3	540
B1	5370	16	3 2	373
C1	4968	35	4	927
D1	5481	23	3	538
A2	5324	24	3 2	
B2	5324	15 25	2	
C2 D2	4968 5332	35 24	4	
A3	5532 4885	24 4/	3	
B3	5303	20	კ 2	
C3	2976	27	3	
D3	4464	27	3	
A4	4885	27	3	
B4	5303	20	3 3 3 2	
C4	2976	27	3	
D4	4464	27	3 3 3 2	
A5	5365	22	3	
B5	5549	15		
C5	4830	34	4	
D5 A6	5306	22	3	
B6	5333 5351	2 4 16	3 2	
C6	4830	34	4	
D6	5327	23		
A13-1	5321	25	3	
B13-1	5392	17	2	
C13-1	3395	26	3 3 2 3 3 2 3 3 2 3 2	
D13-1	5092	26	3	
A13-3	4601	25	3	
B13-3	5368	20	2	
C13-3	2747	25	3	
D13-3	4120	25	3	
A13-5	5240	25	3	
B13-5	5336	16	2	
C13-5 B13-5	3257 4885	25 35	3	
A7	2690	25 14	3	277
B7	2661		_	277
C7	2633	9 19	2 3 2 2 2	198 350
D7	2650	13	2	252
Ē7	2346	18	2	546
A8	2833	11	<u>-</u>	710
B8	2719	5	1	
C8	2646	17	2	

TABLE 2 DATA MATRIX

PAGE 2 OF 3

OPTION	NUMBER OF SHELTERS	NUMBER OF VALLEYS	NUMBER OF ASCs	DTN LENGTH (Statute miles)
D8	2639	10	2	
E8	2300	14		
A9	2644	17	2	
В9	2635	13	2	
C9	2678	21	3	
D9	2650	16	2	
E9	2323	18	2	
A10	2640	17	2 2 2 3 2 2 2	
B10	2663	11	1	
C10	2678	21	3 2	
D10	2892	17		
E10	2323	18	2	
A11	2726	14	2	
B11	2734	9	2	
C11	2711	19	3	
D11	2720	12	2	
E11	2300	19	2	
A12	2833	11	2	
B12	2719	5	1	
C12	2654	17	2	
D12	2639	10	2	
E12	2300	14	2 2 2 3 2 2 2 1 2 2 2 2 2	
A13-7 B13-7	2645	1 <u>4</u> 10	1	
C13-7	2669 2644	20	2	
D13-7	2659	14	1	
E13-7	2346	16	2	
A13-9	2786	16	2	
B13-9	2633	12	1	
C13-9	2656	23		
D13-9	2668	16	2	
E13-9	2300	19	3 2 2	
A13-11	2683	14	2	
B13-11	2732	10	1	
C13-11	2688	19	3	
D13-11	2667	14	1	
E13-11	2346	16	2	
A14	1392	7	1	167
B14	1529	5	1	138
C14	1346	10	1	216
D14	1392	6	1	150
A15	1339	8	1	
B15	1329	6	1	
C15	1337	8	1	

TABLE 2
DATA MATRIX
PAGE 3 OF 3

OPTION	NUMBER OF SHELTERS	NUMBER OF VALLEYS	NUMBER OF ASCs	DTN LENGTH (Statute miles)
D15	1323	7	1	
A16	1357	9	1	
B16	1339	7	1	
C16	1380	15	1	
D16	1316	9	1	
A17	1324	9	1	
B17	1328	6	1	
C17	1324	14	2	
17ע	1429	9	1	
A18	1354	7	1	
B18	1392	5	1	
C18	1354	10	1	
D18	1404	6	1	
A19	1339	8	1	
B19	1329	6	1	
C19	1337	8	1	
D19	1323	7	1	
A20-14	1392	7	1	
B20-14	1529	5	1	
C20-14	1422	11	1	
D20-14	1392	6	1	
A20-16	1398	9	1	
B20-16	1560	7	1	
C20-16	1380	15	1	
D20-16	1334	9	1	
A20-18	1448	8	1	
B20-18	1392	5	1	
C20-18	1332	10	1	
D20-18	1404	6	1	

cases, the Designated Transportation Network (DTN) road length in statute miles. Possible reductions in DTN length may result from valley clustering. The data presented in this document were generated from visual estimates of proportional parts of areas related to number of shelters in whole areas at a scale of 1:500,000. Consequently, this limits the accuracy of the counts, and emphasis should be placed on relative values of options rather than on absolute values of any one option. The option is identified at the top of the table by a letter and a number as well as by identification. For instance, Option A-1 corresponds to A = horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water, 1 = best 4600 shelters and 15 percent for Coyote MOB.

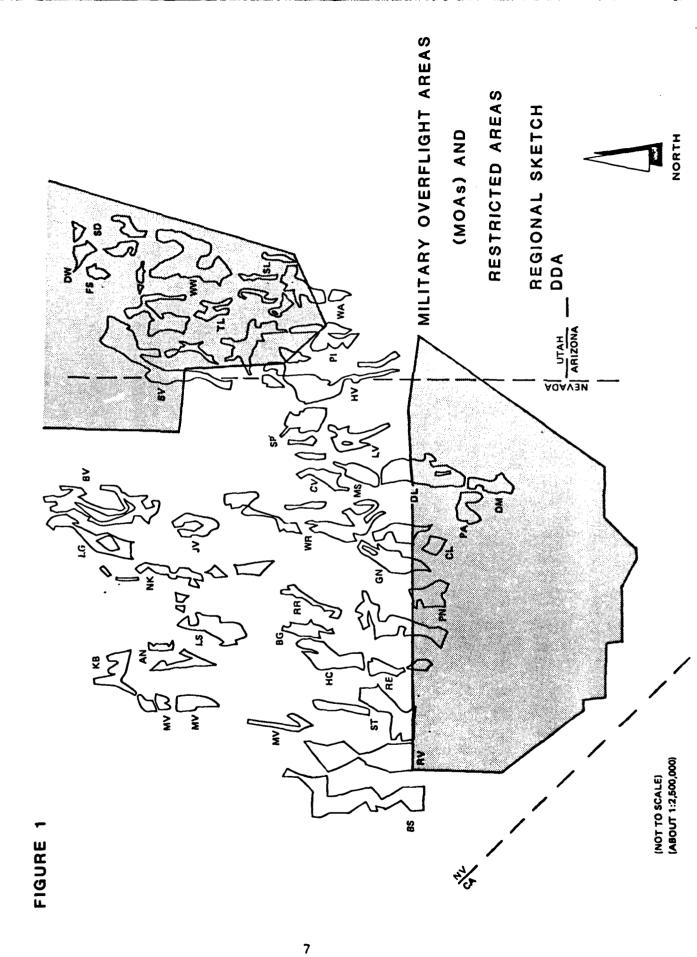
Figure 1 shows the Military Overflight Areas (MOAs) and Restricted Areas overlapping or infringing on the Designated Deployment Area (DDA). In some instances, the areas in MOAs and Restricted Areas were excluded from the shelter count.

Most of the scope of work was defined in an AFRCE-MX memorandum dated 1 July 1981, submitted to Ertec Western, and subsequently augmented verbally by Major Mike Elliott, AFRCE-MX. This memo follows.

1.1 REGIONAL STUDIES FOR VALLEY CLUSTERING

Items 1 through 13 will be examined under each of the following conditions:

A. Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water.



- B. Horizontal shelters full hex, 5200-foot spacing, 50 feet to both rock and water.
- C. Vertical shelters 2/3 hex, 5200-foot spacing, 150 feet to both rock and water.
- D. Vertical shelters full hex, 5200-foot spacing, 150 feet to both rock and water.
- E. Horizontal shelters 23:1 clustered will be examined for case 7 through 12 using Ertec's May 15 numbers.
- 1. Find the most compact system using 4600 shelters and 15 percent coyoce mon.
- 2. Find the most compact system using 4600 shelters and 15 percent Milford MOB.
- 3. Repeat #1, but avoid all MOAs and Restricted Areas.
- 4. Repeat #2, but avoid all MOAs and Restricted Areas.
- 5. Repeat #1, but avoid the Delamar/Pahroc valleys.
- 6. Repeat #2, but avoid the Delamar/Pahroc valleys.
- 7. Best 2300 shelters and 15 percent Coyote MOB.
- 8. Best 2300 shelters and 15 percent Milford MOB.
- Repeat #7, but avoid all MOAs and Restricted Areas.
- 10. Repeat #8, but avoid all MOAs and Restricted Areas.
- 11. Repeat #7, but avoid the Delamar/Pahroc valleys.
- 12. Repeat #8, but avoid the Delamar/Pahroc valleys.
- 13. Repeat #'s 1, 3, 5, 7, 9, and 11 for Nevada only.
- 14. Best 1150 shelters and 15 percent Coyote MOB.
- 15. Best 1150 shelters and 15 percent Milford MOB.
- 16. Repeat #14, but avoid all MOAs and Restricted Areas.
- 17. Repeat #15, but avoid all MOAs and Restricted Areas.
- 18. Repeat #14, but avoid Delamar/Pahroc valleys.

- 19. Repeat #15, but avoid Delamar/Pahroc valleys.
- 20. Repeat #s 14, 16, and 18 for Nevada only.
- o TRW numbers will be used for A (1-13) B (1-13) = A x 1.5 C (1-13) D (1-13)
- o Ertec cluster numbers will be used for cases E (7-12).
- o Cases A-D (7, 9, 11) One ASC will be at Milford.

2.0 4600 SHELTER OPTIONS

2.0 4600 SHELTER OPTIONS

This section contains options for 4600 shelters as specified in Section 1.1.

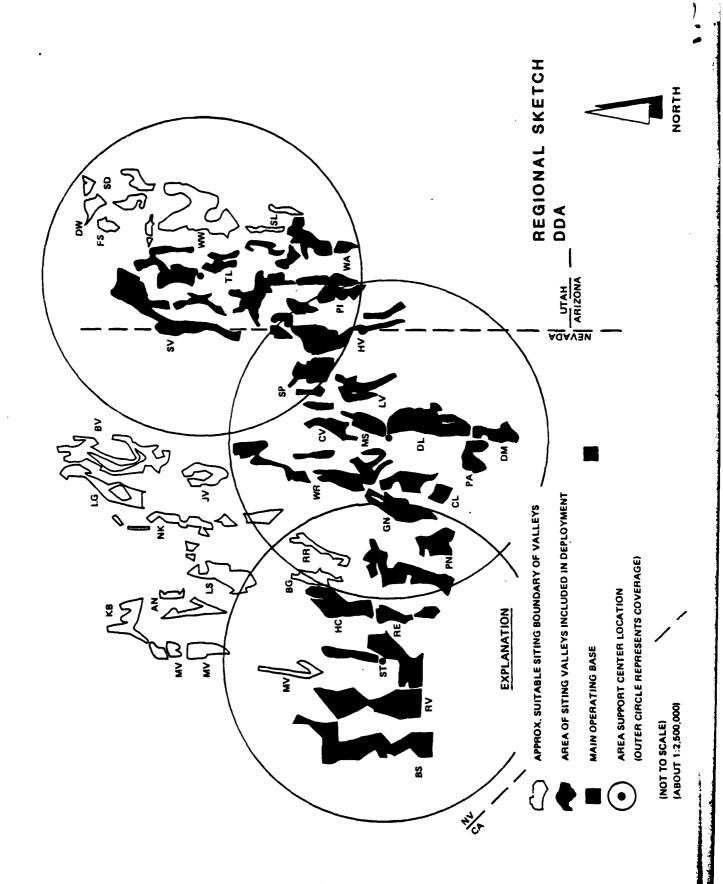
A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

1) Best 4600 shelters and 15 percent - Coyote MOB

VALLEY	ABBRE-VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE-VIATION	NUMBER OF SHELTERS USED
Dugway	MQ		Hamlin	НУ	333
Fish Springs Flat	FS		Hot Creek	HC	167
Pine	PI	249	Jakes	λſ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	\mathbf{SL}		Lake	ΓΛ	191
Snake	SV	650	Little Smoky	L.S	
Tule	TL	367	Long	P.C	
Wah Wah	WA	213	Monitor	MV	
Whirlwind	WM		Muleshoe	MS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	212
Big Smoky	BS	430	Railroad	RR	273
Butte	BV		Ralston	RV	312
Cave	C	79	Reveille	RE	16
Coal	CF	219	Spring	$_{ m SP}$	121
Delamar/Pahroc	DM	170	Stone Cabin	ST	331
Dry Lake	DĽ	284	White River	WR	398
Garden	S	161			

5332 21 3

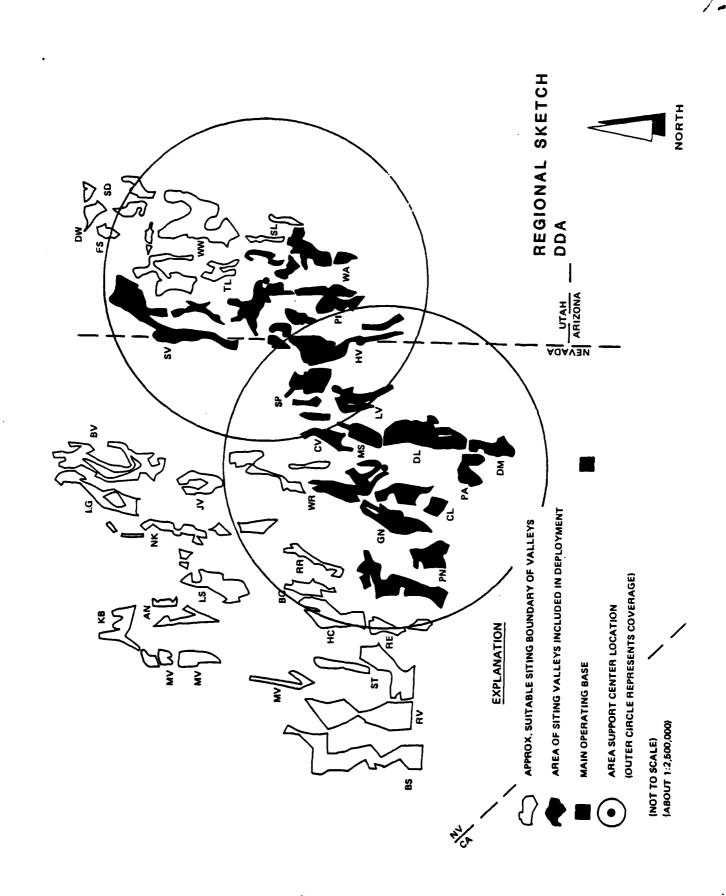
TOTAL SHELTERS TOTAL VALLEYS TOTAL ASCS



Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water

1) Best 4600 shelters and 15 percent - Coyote MOB

	9			1	
VALLEY	ABBRE- VIATION	NUMBER OF	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DW		Hamlin	Н	200
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	374	Jakes	λς	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	Sľ		Lake	ľΛ	286
Snake	SV	975	Little Smoky	I.S	
Tule	II	116	Long	P.C	
Wah Wah	WA	320	Monitor	ΑV	
Whirlwind	WM		Muleshoe	WS	122
Antelope	AN		Newark	NK	
Big Sand Springs	8		Penoyer	PN	318
Big Smoky	BS		Railroad	RR	410
Butte	BV		Ralston	RV	
Cave	CV	118	Reveille	RE	
Coal	CF	328	Spring	SP	182
Delamar/Pahroc	₩ O	255	Stone Cabin	ST	
Dry Lake	ЭC	426	White River	WR	398
Garden	GN	242			
			TOTAL SHELTERS		5370
			TOTAL VALLEYS		16
			TOTAL ASCS		2

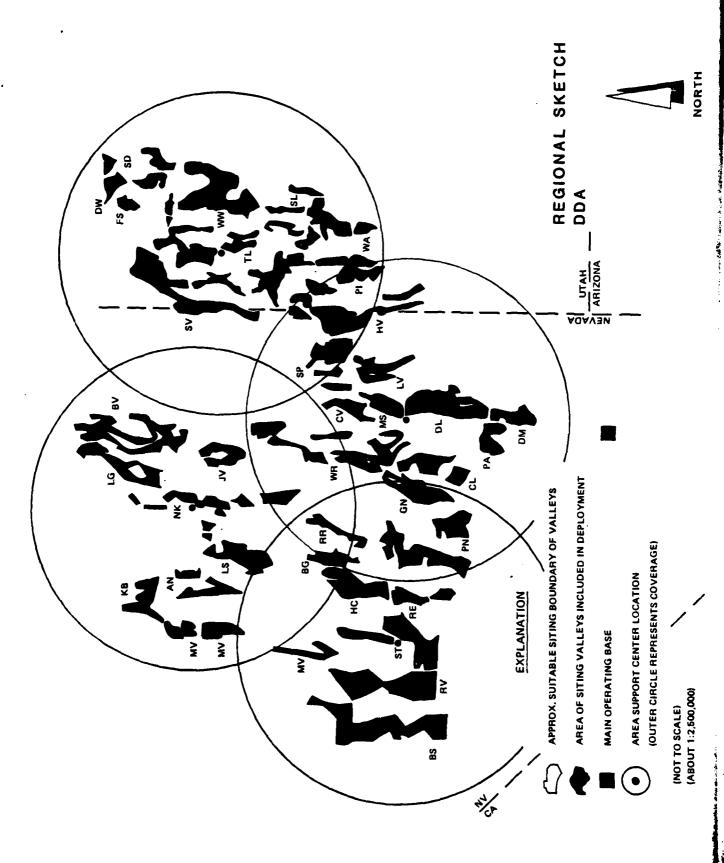


C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

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1) Best 4600 shelters and 15 percent - Coyote MOB

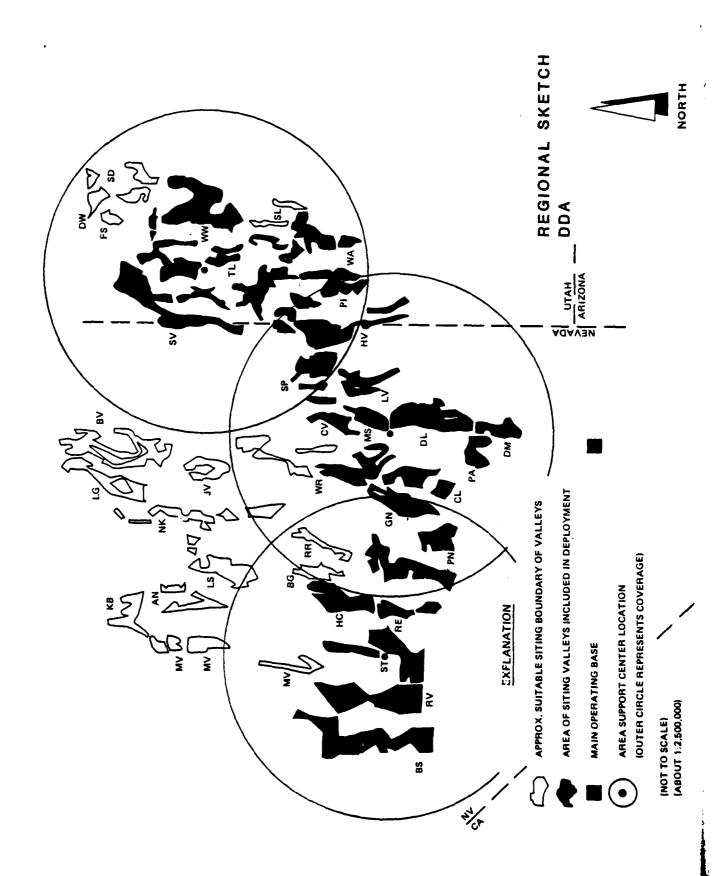
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DW	114	Hamlin	НУ	186
Fish Springs Flat	FS	50	Hot Creek	HC	66
Pine	ΡΙ	242	Jakes	λ	83
Sevier Desert	SD	62	Kobeh	KB	80
Sevier Lake	SL	57	Lake	ľΛ	94
Snake	SV	390	Little Smoky	L.S	137
Tule	TL	198	Long	LG	80
Wah Wah	WA	175	Monitor	MΛ	83
Whirlwind	WW	215	Muleshoe	MS	69
Antelope	AN	51	Newark	NK	96
Biq Sand Springs	BG	57	Penoyer	PN	146
Big Smoky	BS	189	Railroad	RR	273
Butte	BV	264	Ralston	RV	256
Cave	CA	70	Reveille	RE	74
Coal	CL	201	Spring	$\mathbf{S}\mathbf{F}$	89
Delamar/Pahroc	ΨΩ	138	Stone Cabin	ST	159
Dry Lake	DF	267	White River	WR	191
Garden	N.	126			
			TOTAL SHELTERS		4968
			TOTAL VALLEYS		35
			TOTAL ASCS		4



D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

1) Best 4600 shelters and 15 percent - Coyote MOB

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DW		Hamlin	НУ	279
Fish Springs Flat	FS	34	Hot Creek	HC	148
Pine	PI	363	Jakes	λſ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	TS		Lake	ΓΛ	141
Snake	SV	585	. Little Smoky	ΓS	
Tule	TL	297	Long	T.G	
Wah Wah	WA	263	Monitor	MΛ	
Whirlwind	MM	290	Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	M	219
Big Smoky	BS	284	Railroad	RR	246
Butte	BV		Ralston	RV	384
Cave	C	105	Reveille	RE	111
Coal	CF	302	Spring	SP	102
Delamar/Pahroc	ΨQ	207	Stone Cabin	ST	238
Dry Lake	'n	400	White River	WR	190
Garden	N G	189			
			TOTAL CHELMEDS		5.481
			TOTAL VALLEYS		23
			TOTAL ASCS		m

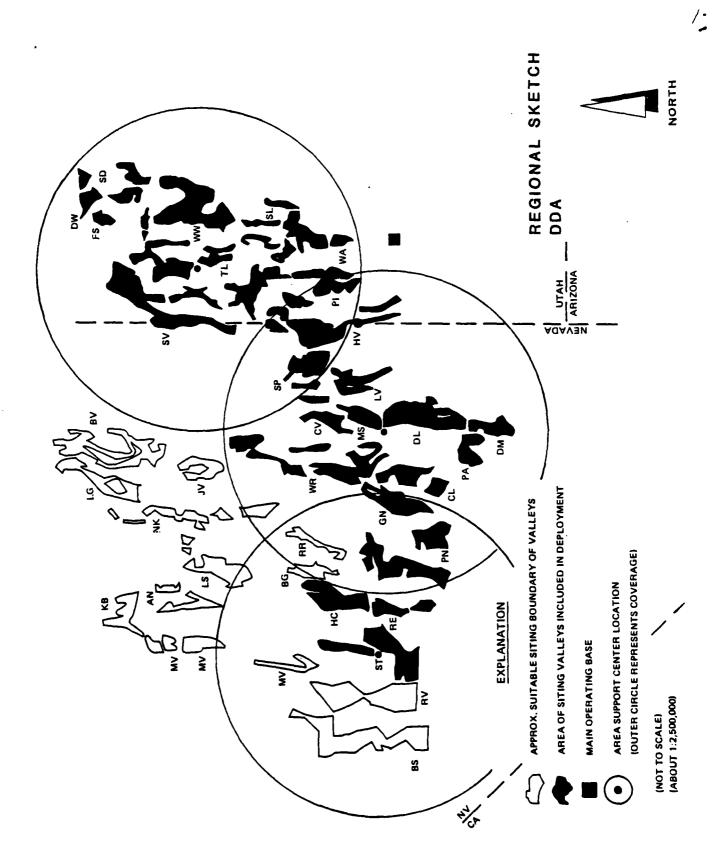


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Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water A)

2) Best 4600 shelters and 15 percent - Milford MOB

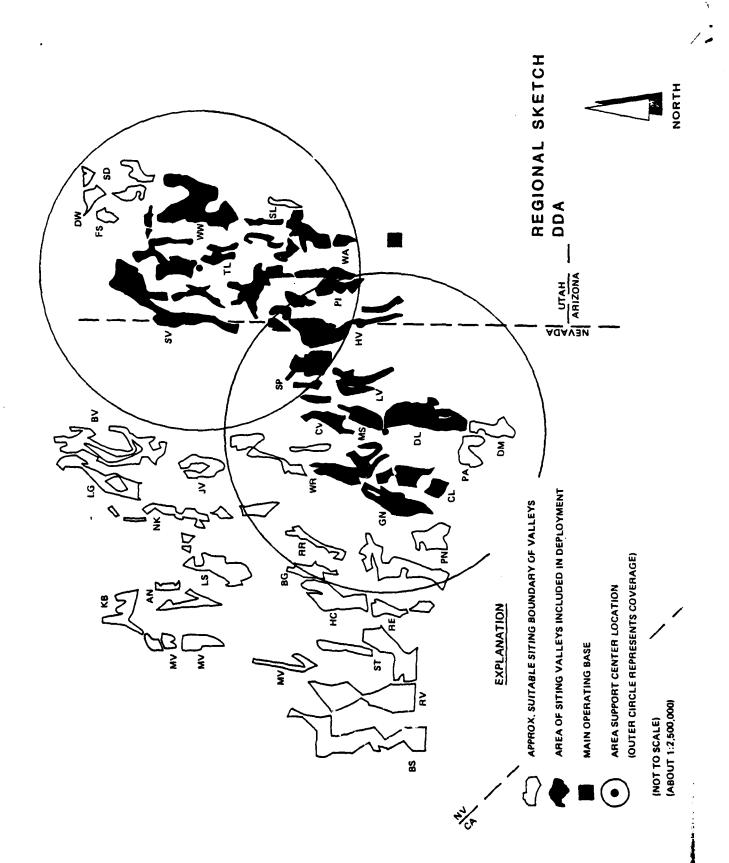
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	Μ̈́O	132	Hamlin	НΛ	333
Fish Springs Flat	FS	66	Hot Creek	HC	167
Pine	PI	249	Jakes	λC	
Sevier Desert	SD	142	Kobeh	KB	
Sevier Lake	SL	70	Lake	ľΛ	191
Snake	SV	650	Little Smoky	ĽS	
Tule	T.	367	Long	LG	
Wah Wah	WA	213	Monitor	> ₩	
Whirlwind	MM	291	Muleshoe	MS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	212
Big Smoky	BS		Railroad	RR	273
Butte	BV		Ralston	RV	
Cave	CS CS	79	Reveille	RE	91
Coal	1 0	219	Spring	SP	121
Delamar/Pahroc	¥	170	Stone Cabin	ST	331
Dry Lake	ΩĽ	284	White River	WR	398
Garden	ĊN	161			
			TOTAL SHELFERS		5324
			TOTAL VALLEYS		24
			TOTAL ASCS		m



B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water

2) Best 4600 shelters and 15 percent - Milford MOB

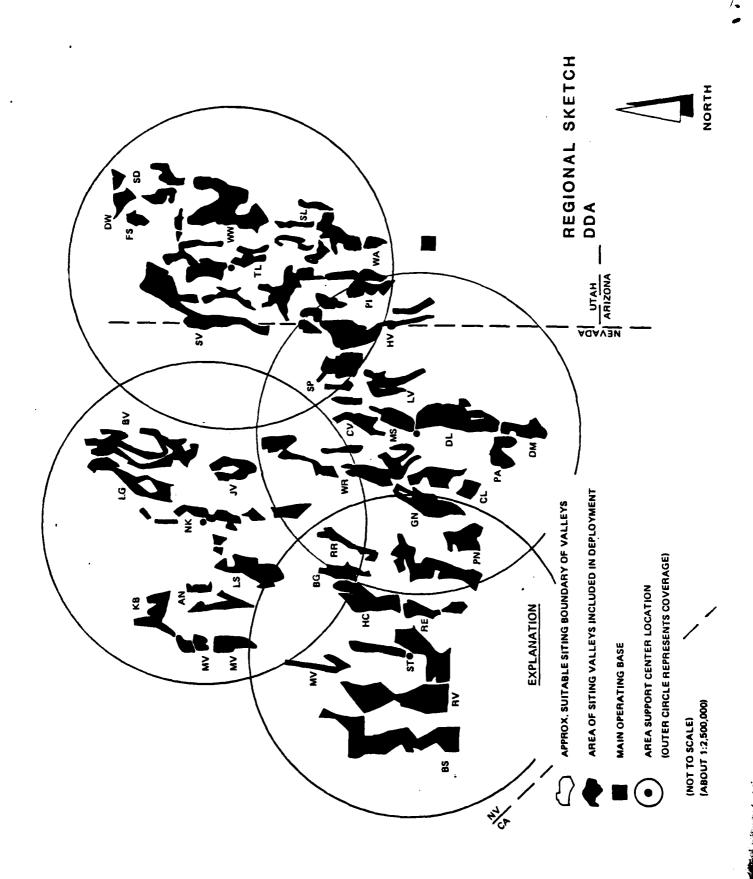
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	MQ.		Hamlin	НΛ	200
Fish Springs Flat	FS	29	Hot Creek	HC	
Pine	ΡΙ	374	Jakes	λſ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	ΓΛ	286
Snake	SV	975	Little Smoky	SI	
Tule	TL	550	Long	ភ្ជ	
Wah Wah	WA	320 .	Monitor	MΛ	
Whirlwind	MM	436	Muleshoe	WS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	118	Reveille	RE	
Coal	CF	328	Spring	SP	182
Delamar/Pahroc	ΨΩ		Stone Cabin	\mathbf{ST}	
Dry Lake	D[426	White River	WR	398
Garden	CN	242			
			TOTAL SHELTERS		5324
			TOTAL VALLEYS		15
					7



Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water c

2) Best 4600 shelters and 15 percent - Milford MOB

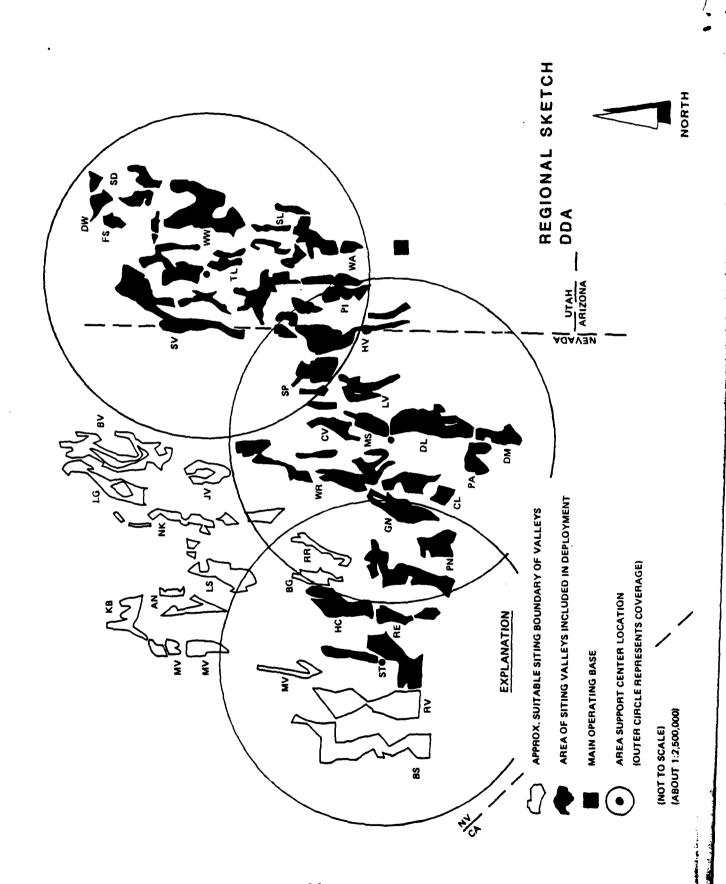
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	MQ	114	Hamlin	НΛ	186
Fish Springs Flat	FS	50	Hot Creek	HC	66
Pine	PI	242	Jakes	JΛ	83
Sevier Desert	SD	62	Kobeh	КВ	80
Sevier Lake	SI	57	Lake	ΓΛ	94
Snake	SV	390	Little Smoky	LS	137
Tule	TL	198	Long	<u>r</u> c	80
Wah Wah	WA	175	Monitor	MV	83
Whirlwind	WM	215	Muleshoe	MS	69
Antelope	AN	51	Newark	NK	96
Big Sand Springs	BG	57	Penoyer	Nd	146
Big Smoky	BS	189	Railroad	RR	273
Butte	BV	264	Ralston	RV	256
Cave	CV	70	Reveille	RE	74
Coal	CL	201	Spring	SP	89
Delamar/Pahroc	ΨO	138	Stone Cabin	ST	159
Dry Lake	DĽ	267	White River	WR	191
Garden	GN	126			
			SHELTERS TANCE		4968
					35
					4



Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water <u>a</u>

2) Best 4600 shelters and 15 percent - Milford MOB

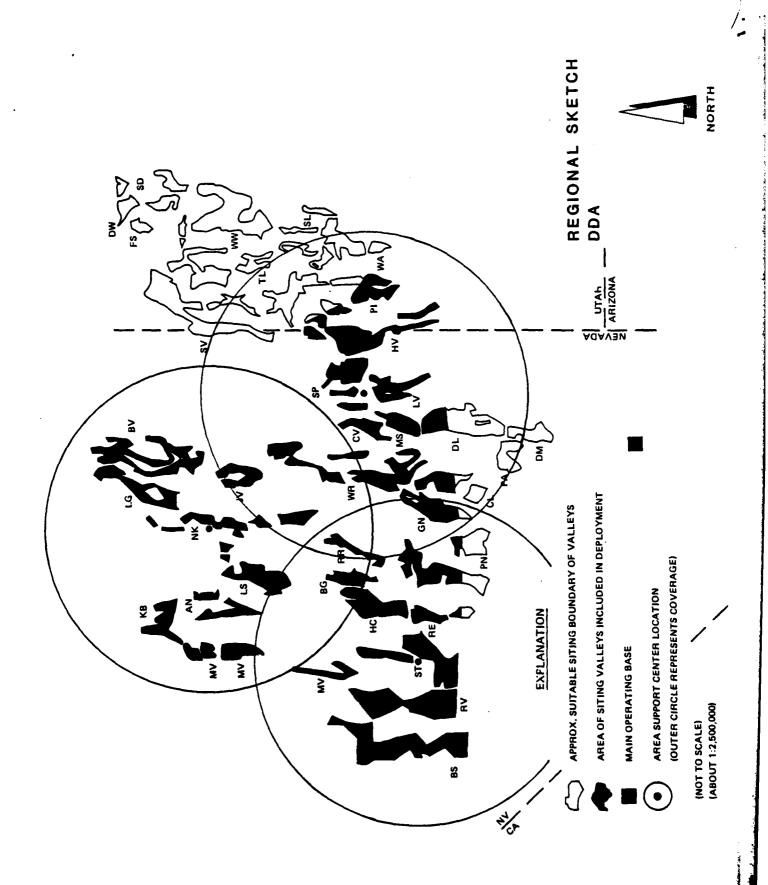
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	MQ	171	Hamlin	НУ	279
Fish Springs Flat	FS	75	Hot Creek	HC	148
Pine	PI	363	Jakes	JΛ	
Sevier Desert	SD	93	Kobeh	KB	
Sevier Lake	SL	98	Lake	ΓΛ	141
Snake	SV	585	Little Smoky	LS	
Tule	TL	297	Long	re	
Wah Wah	WA	263	Monitor	M	
Whirlwind	MM	322	Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	219
Big Smoky	BS		Railroad	RR	246
Butte	BV		Ralston	RV	
Cave	CG	105	Reveille	RE	111
Coal	CL	302	Spring	SP	102
Delamar/Pahroc	ΜQ	207	Stone Cabin	ST	238
Dry Lake	DF	400	White River	WR	286
Garden	GN	189			
					5332
					24
			TOTAL ASCS		m



Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water A)

Best 4600 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas 3)

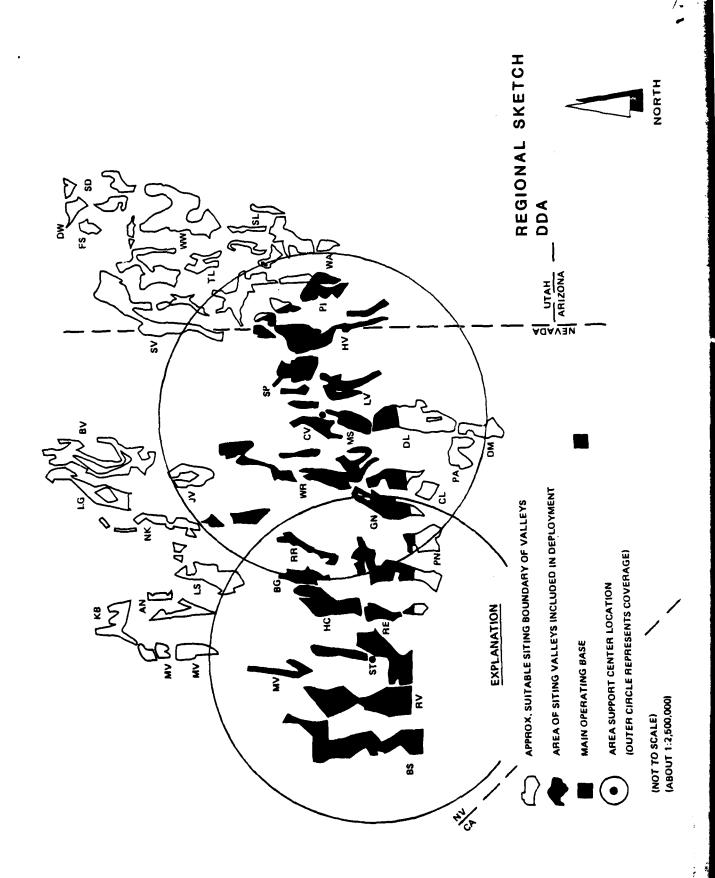
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ARBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DW		Hamlin	НУ	300
Fish Springs Flat	FS		Hot Creek	HC	167
Pine	ΡΙ	166	Jakes	λſ	89
Sevier Desert	SD		Kobeh	KB	150
Sevier Lake	SL		Lake	ľ	191
Snake	SV	26	Little Smoky	LS	195
Tule	TL		Long	91	125
Wah Wah	WA		Monitor	ΑV	276
Whirlwind	MM		Muleshoe	WS	81
Antelope	AN	125	Newark	NK	177
Big Sand Springs	BG	70	Penoyer	PN	35
Big Smoky	BS	430	Railroad	RR	355
Butte	BV	293	Ralston	RV	312
Cave	C	79	Reveille	RE	73
Coal	J.	115	Spring	SP	121
Delamar/Pahroc	ΨΩ		Stone Cabin	ST	331
Dry Lake	DĽ	95	White River	WR	398
Garden	N.	110			
			TOTAL SHELFERS		4885
			TOTAL VALLEYS		27
			TOTAL ASCS		æ



Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water B)

Best 4600 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas

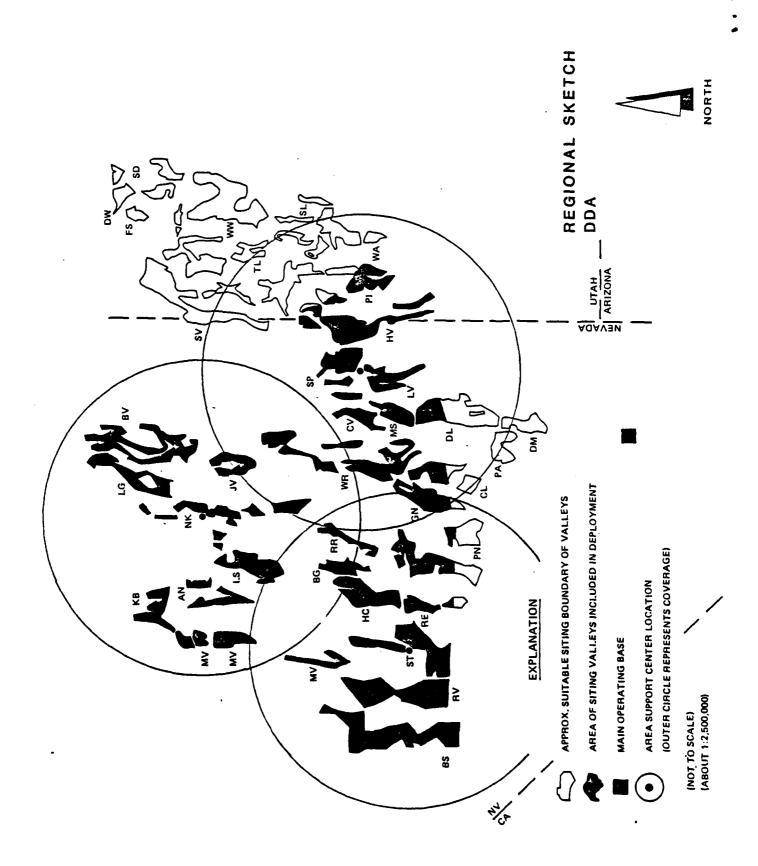
VALLEY	ABRRE-	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	ΜQ		Hamlin	НV	450
Fish Springs Flat	FS		Hot Creek	HC	250
Pine	PI	249	Jakes	λſ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	Sľ		Lake	ΓΛ	286
Snake	SV	48	Little Smoky	ΓS	
Tule	ŢĽ		Long	91	
Wah Wah	WA		Monitor	ΜV	140
Whirlwind	WW		Muleshoe	WS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG	105	Penoyer	PN	52
Big Smoky	BS	645	Railroad	RR	506
Butte	. BV		Ralston	RV	468
Cave	CV	118	Reveille	RE	110
Coal	Cľ	172	Spring	SP	182
Delamar/Pahroc	₩ O		Stone Cabin	ST	496
Dry Lake	DĽ	142	White River	WR	597
Garden	CN	165		•	
			TOTAL SHELTERS		5303
					2 2



Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water C)

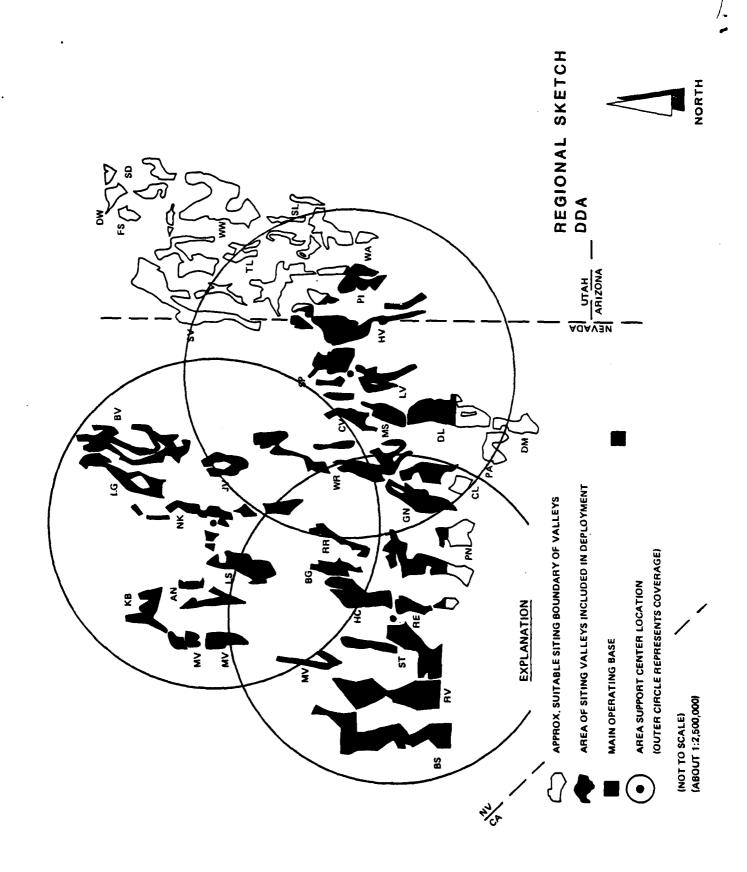
Best 4600 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas 3)

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE-VIATION	NUMBER OF SHELTERS USED
Dugway	DW		Hamlin	НУ	168
Fish Springs Flat	FS		Hot Creek	HC	66
Pine	PI	161	Jakes	JV	83
Sevier Desert	SD		Kobeh	KB	80
Sevier Lake	SL		Lake	ľΛ	94
Snake	SV	16	Little Smoky	ΓS	137
Tule	T.		Long	P.C	80
Wah Wah	WA		Monitor	MV	83
Whirlwind	WM		Muleshoe	MS	69
Antelope	AN	51	Newark	NK	96
Big Sand Springs	BG	57	Penoyer	PN	24
Big Smoky	BS	189	Railroad	RR	213
Butte	BV	264	Ralston	RV	256
Cave	S	70	Reveille	RE	59
Coal	CI	106	Spring	SP	68
Delamar/Pahroc	DM		Stone Cabin	ST	159
Dry Lake	DF	68	White River	WR	191
Garden	CN	98			
			TOTAL SHELMERS		9266
					27
					æ



Best 4600 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water 3)

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	MQ		Hamlin	HV	252
Fish Springs Flat	FS		Hot Creek	HC	148
Pine	PI	242	Jakes	ΔC	124
Sevier Desert	SD		Kobeh	KB	12
Sevier Lake	$\mathbf{S}\mathbf{\Gamma}$		Lake	ΓΛ	141
Snake	SV	24	Little Smoky	LS	206
Tule	TL		Long	91	120
Wah Wah	WA		Monitor	MΩ	124
Whirlwind	WW		Muleshoe	MS	104
Antelope	AN	76	Newark	NK	144
Big Sand Springs	BG	86	Penoyer	PN	36
Big Smoky	BS	284	Railroad	RR	320
Butte	BV	396	Ralston	RV	384
Cave	C	105	Reveille	RE	88
Coal	CF	159	Spring	SP	102
Delamar/Pahroc	Æ		Stone Cabin	\mathbf{ST}	238
Dry Lake	DĽ	134	White River	WR	286
Garden	SN	129			
					4464
			TOTAL VALLEYS TOTAL ASCS		33
					ז

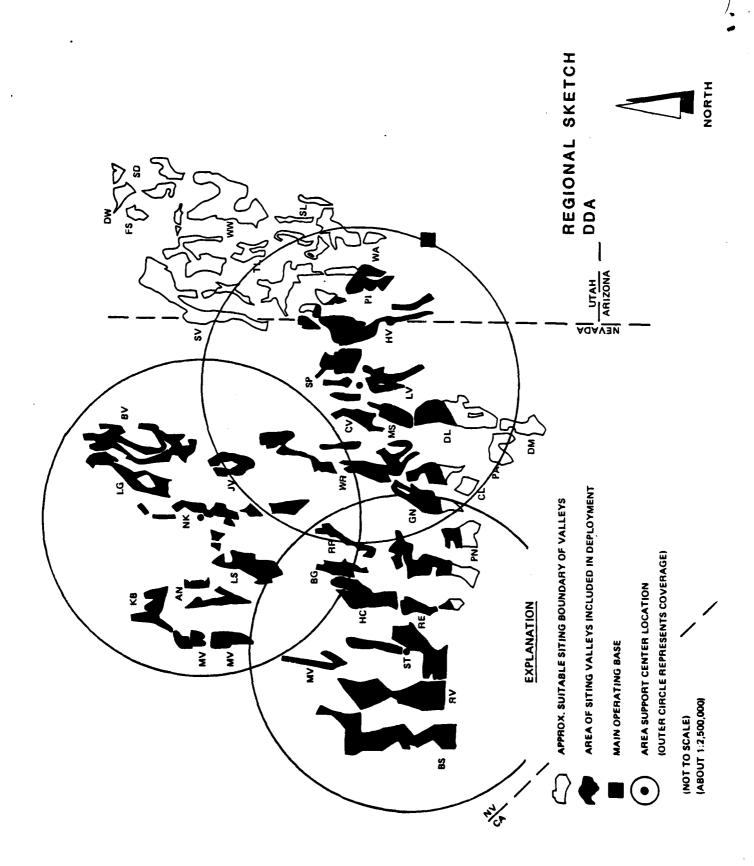


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A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

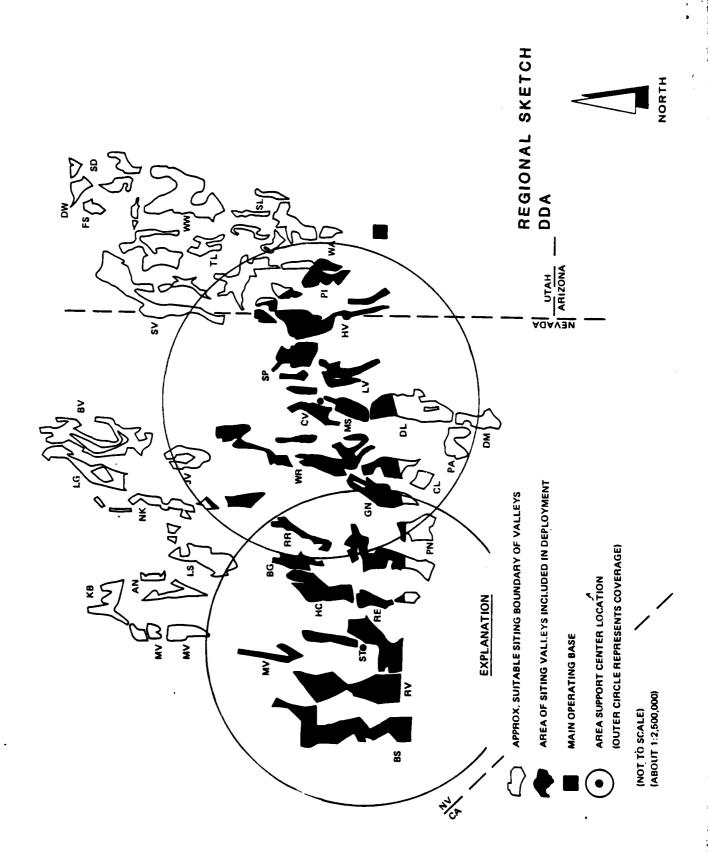
Best 4600 shelters and 15 percent - Milford MOB, avoid all MOAs and Restricted Areas

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DW		Hamlin	НΛ	300
Fish Springs Flat	FS		Hot Creek	HC	167
Pine	PI	166	Jakes	λſ	88
Sevier Desert	SD		Kobeh	KB	150
Sevier Lake	$S\Gamma$		Lake	ΓΛ	191
Snake	SV	26	Little Smoky	ΓS	195
Tule	TL		Long	P.C	125
Wah Wah	WA		Monitor	MΩ	276
Whirlwind	ΜM		Muleshoe	MS	81
Antelope	AN	125	Newark	NK	177
Big Sand Springs	BG	70	Penoyer	PN	35
Big Smoky	BS	430	Railroad	RR	355
Butte	BV	293	Ralston	RV	312
Cave	CV	79	Reveille	RE	73
Coal	CL	115	Spring	SP	121
Delamar/Pahroc	ωQ		Stone Cabin	ST	331
Dry Lake	DI	95	White River	WR	398
Garden	GN	110			
			TOTAL SHELTERS		4885
					27
			TOTAL ASCS		٣



Best 4600 shelters and 15 percent - Milford MOB, avoid all MOAs and Restricted Areas Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water B)

NUMBER OF SHELTERS USED	450	250			286			140	122		52	506	468	110	182	496	597		5303	20	2
ABBRE- VIATION	НΛ	HC	Λſ	KB	ΓΛ	L.S	1.G	ΔW	WS	NK	PN	RR	RV	RE	SP	ST	WR				
VALLEY	Hamlin	Hot Creek	Jakes	Kobeh	Lake	Little Smoky	Long	Monitor	Muleshoe	Newark	Penoyer	Railroad	Ralston	Reveille	Spring	Stone Cabin	White River				TOTAL ASCS
NUMBER OF SHELTERS USED			249			48					105	645		118	172		142	165			
ABBRE- VIATION	MQ	FS	PI	SD	SL	SV	TL	MA	WM	AN	BG	BS	BV	C	CF	M.C	DF	US			
VALLEY	Dugway	Fish Springs Flat	Pine	Sevier Desert	Sevier Lake	Snake	Tule	Wah Wah	Whirlwind	Antelope	Big Sand Springs	Big Smoky	Butte	Cave	Coal	Delamar/Pahroc	Dry Lake	Garden			

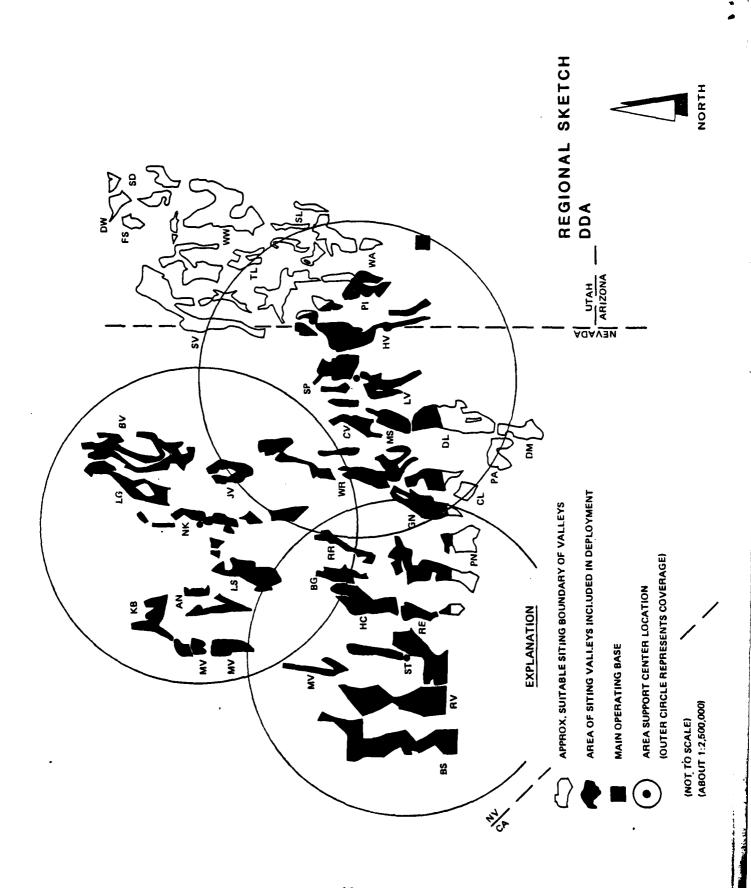


Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water ပ

The second secon

SHELTERS USED OF Best 4600 shelters and 15 percent - Milford MOB, avoid all MOAs and Restricted Areas NUMBER 94 137 80 83 83 96 24 22 25 59 59 68 159 191 2976 27 ABBRE-VIATION TOTAL SHELTERS TOTAL VALLEYS Little Smoky Stone Cabin White River Hot Creek Muleshoe Railroad Reveille Ralston Monitor Penoyer Hamlin Newark Spring VALLEY Kobeh Jakes Long Lake SHELTERS USED NUMBER OF 51 57 189 264 70 106 89 86 161 VIATION ABBRE-SD SL SV TL WA Fish Springs Flat Antelope Big Sand Springs Big Smoky Delamar/Pahroc Sevier Desert Sevier Lake Whirlwind Dry Lake Wah Wah Garden Dugway VALLEY Butte Snake Tule Pine Cave Coal 4

TOTAL ASCS



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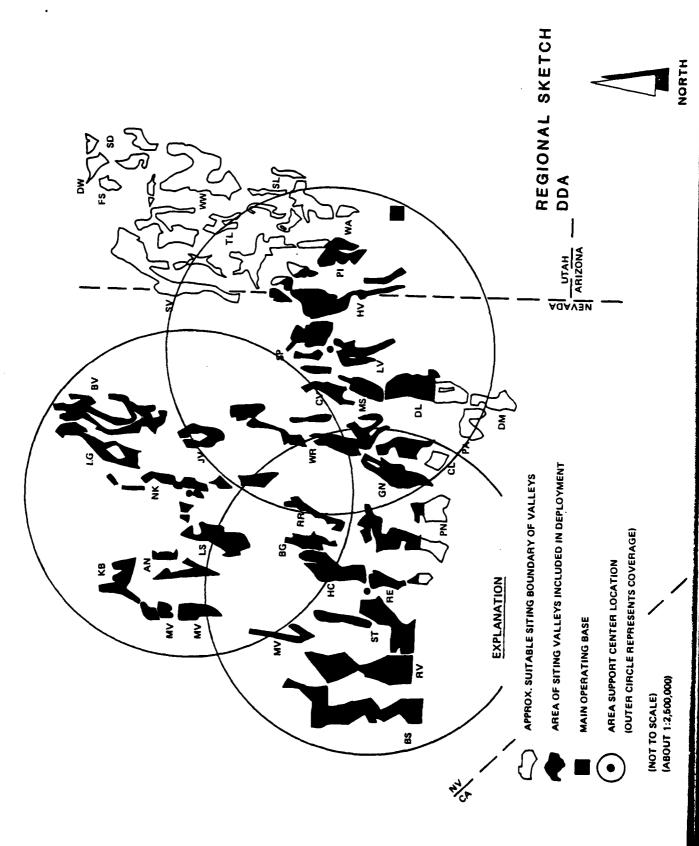
Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water â

Best 4600 shelters and 15 percent - Milford MOB, avoid all MOAs and Restricted Areas

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS US	OF USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	ΜQ			Hamlin	НУ	252
Fish Springs Flat	FS			Hot Creek	HC	148
Pine	PI	242		Jakes	ß	124
Sevier Desert	SD			Kobeh	KB	12
Sevier Lake	\mathbf{SL}			Lake	ľΛ	141
Snake	SV	24		Little Smoky	I.S	206
Tule	TL			Long	LG	120
Wah Wah	WA			Monitor	MΛ	124
Whirlwind	MM			Muleshoe	MS	104
Antelope	AN	9/		Newark	NK	144
Big Sand Springs	BG	98		Penoyer	PN	36
Big Smoky	BS	284		Railroad	RR	320
Butte	BV	396		Ralston	RV	384
Cave	CA	105		Reveille	RE	88
Coal	CL	159		Spring	SP	102
Delamar/Pahroc	ωQ			Stone Cabin	ST	238
Dry Lake	DĽ	134		White River	WR	286
Garden	ВN	129				
				TOTAL SHELTERS		4464

27

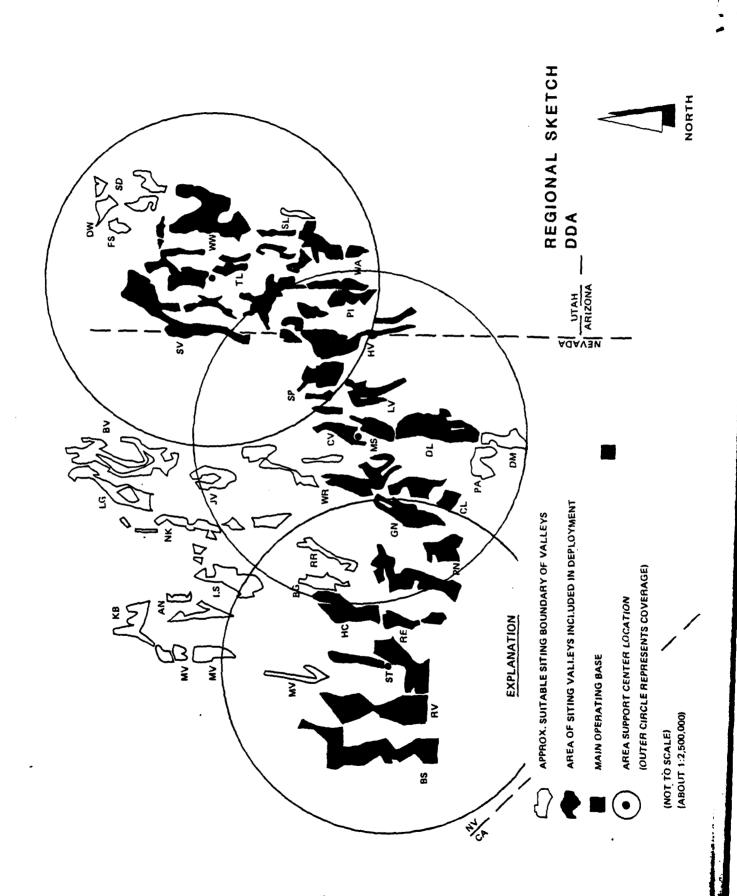
TOTAL VALLEYS TOTAL ASCS



Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water A)

Best 4600 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys 2

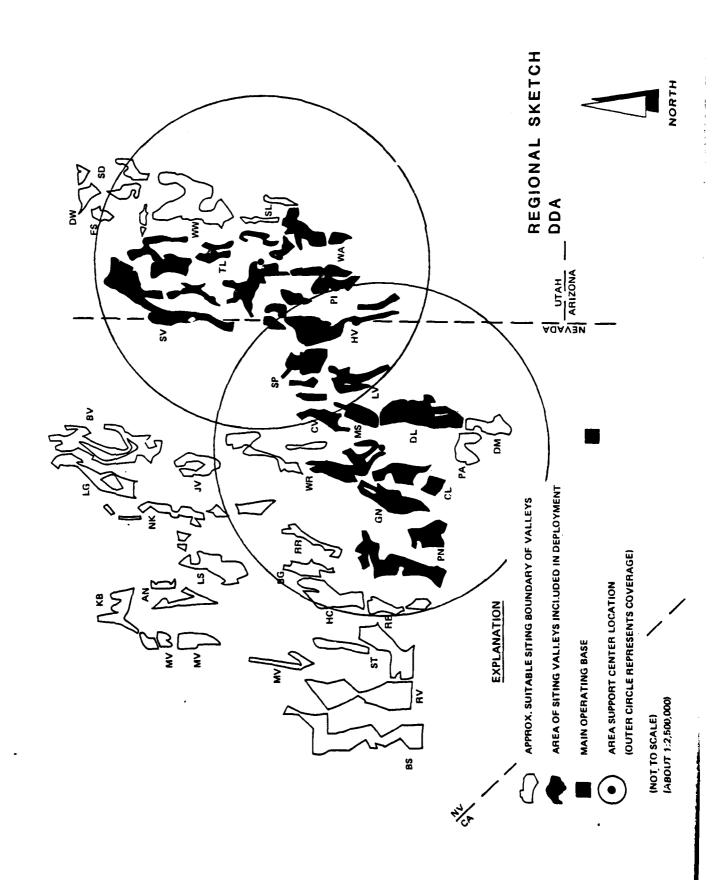
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway			Hamlin	НΛ	333
Fish Springs Flat		45	Hot Creek	HC	167
Pine		249	Jakes	λſ	
Sevier Desert			Kobeh	KB	
Sevier Lake			Lake	ľΛ	191
Snake		650	Little Smoky	LS	
Tule	TL	367	Long	re	
Wah Wah	WA	213	Monitor	ΑV	
Whirlwind	WM	291	Muleshoe	WS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	212
Big Smoky	BS	430	Railroad	RR	273
Butte	BV		Ralston	RV	312
Cave	C	79	Reveille	RE	91
Coal	CF	219	Spring	SP	121
Delamar/Pahroc	ΜQ		Stone Cabin	ST	331
Dry Lake	ΊΩ	284	White River	WR	265
Garden	GN	161			
					5365
					22
			TOTAL ASCS		æ



Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water B)

Best 4600 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys 2)

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	ΜQ		Hamlin	НУ	200
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	374	Jakes	JΛ	
Sevier Desert	SD		Kobeh	КВ	
Sevier Lake	SL		Lake	ľΛ	286
Snake	SV	975	Little Smoky	ΓS	
Tule	TL	550	Long	ĽĠ	
Wah Wah	WA	320	Monitor	MΛ	
Whirlwind	MM		Muleshoe	WS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	318
Big Smoky	BS		Railroad	RR	410
Butte	BV		Ralston	RV	
Cave	CQ	118	Reveille	RE	
Coal	CL	328	Spring	SP	182
Delamar/Pahroc	ΜΩ		Stone Cabin	ST	
Dry Lake	Dľ	426	White River	WR	398
Garden	NS	242			
					j
					5549
					15
			TOTAL ASCS		7

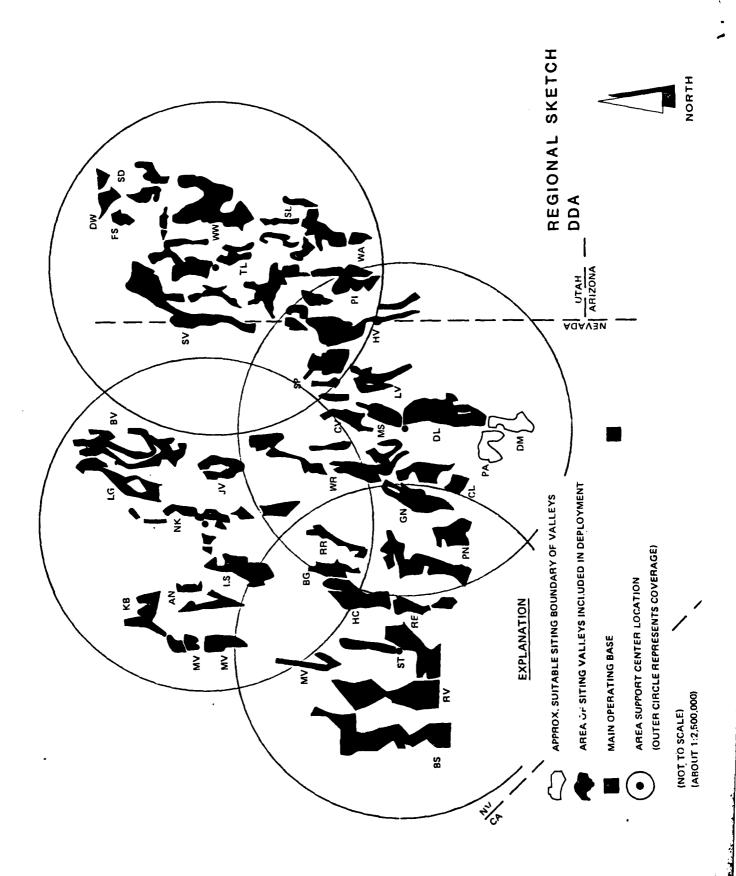


C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

The same of the sa

Best 4600 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys 2)

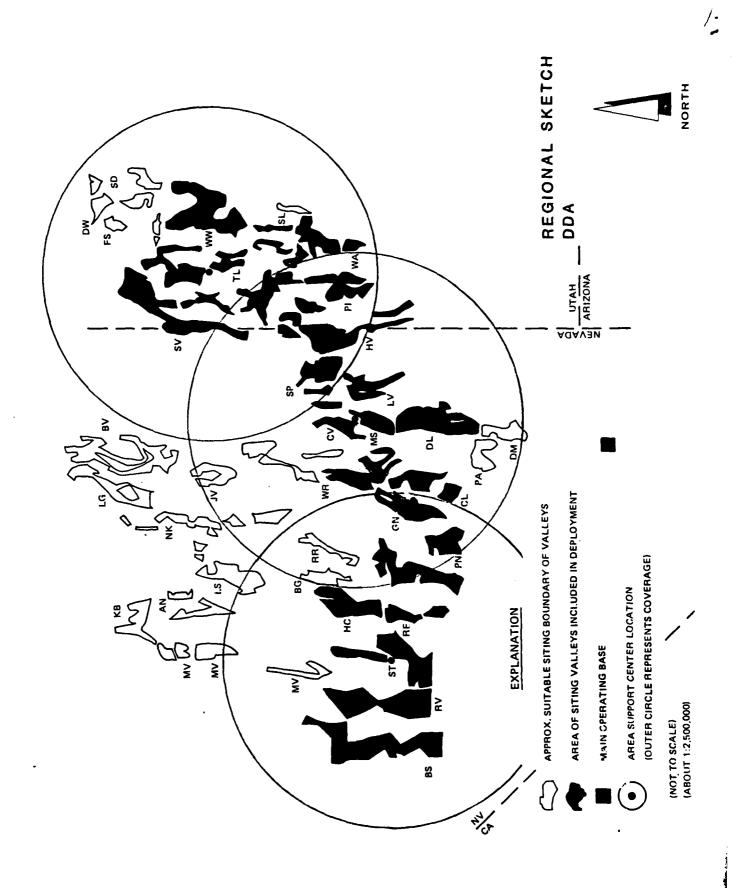
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	MQ	114	Hamlin	НУ	186
Fish Springs Flat	FS	50	Hot Creek	HC	66
Pine :	PI	242	Jakes	λ	83
Sevier Desert	SD	62	Kobeh	КВ	80
Sevier Lake	SF	57	Lake	ΓΛ	94
Snake	SV	390	Little Smoky	LS	137
Tule	TI,	198	Long	P.C	80
Wah Wah	WA	175	Monitor	ΜV	83
Whirlwind	MM	215	Muleshoe	WS	69
Antelope	AN	51	Newark	NK	96
Big Sand Springs	BG	57	Penoyer	PN	146
Big Smoky	BS	189	Railroad	RR	273
Butte	BV	264	Ralston	RV	256
Cave	C	70	Reveille	RE	74
Coal	CL	201	Spring	SP	89
Delamar/Pahroc	¥		Stone Cabin	\mathbf{ST}	159
Dry Lake	DĽ	267	White River	WR	191
Garden	CN	126			
			TOTAL SHELTERS		4830
					34
			TOTAL ASCS		4



Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water Best 4600 shelters and 15 pcrcent - Coyote MOB, avoid Delamar/Pahroc valleys 2)

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DW		Hamlin	НΛ	279
Fish Springs Flat	FS	34	Hot Creek	H	148
Pine	Id	363	Jakes	ΔĽ)
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	ΓΛ	141
Snake	SV	585	Little Smoky	rs	
Tule	TL	297	Long	ΓG	
Wah Wah	WA	263	Monitor	MΩ	
Whirlwind	WM	322	Muleshoe	WS	104
Antelope	AN		Newark	NK	1
Big Sand Springs	BG		Penover	PN	219
Big Smoky	BS	284	Railroad	RR	24.5
Butte	BV		Ralston	RV	384
Cave	CA	105	Reveille	RE	111
Coal	CL	30.2	Spring	SP	102
Delamar/Pahroc	ΜΩ		Stone Cabin	ST	238
Dry Lake	Οľ	400	White River	Z M	061
Garden	GN	189))

TOTAL SHELTERS TOTAL VALLEYS TOTAL ASCS

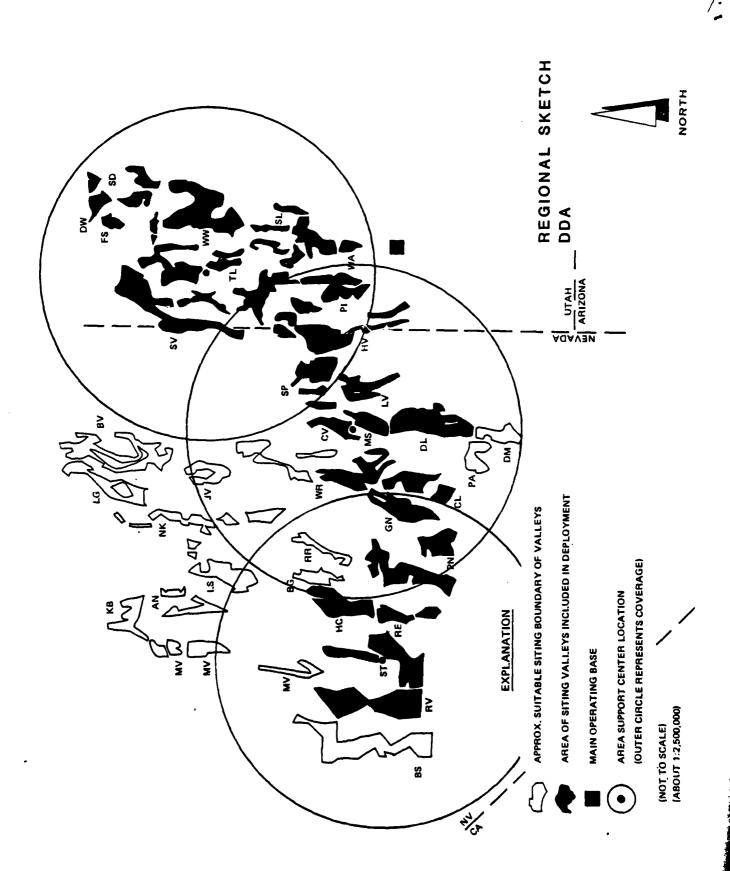


Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water A)

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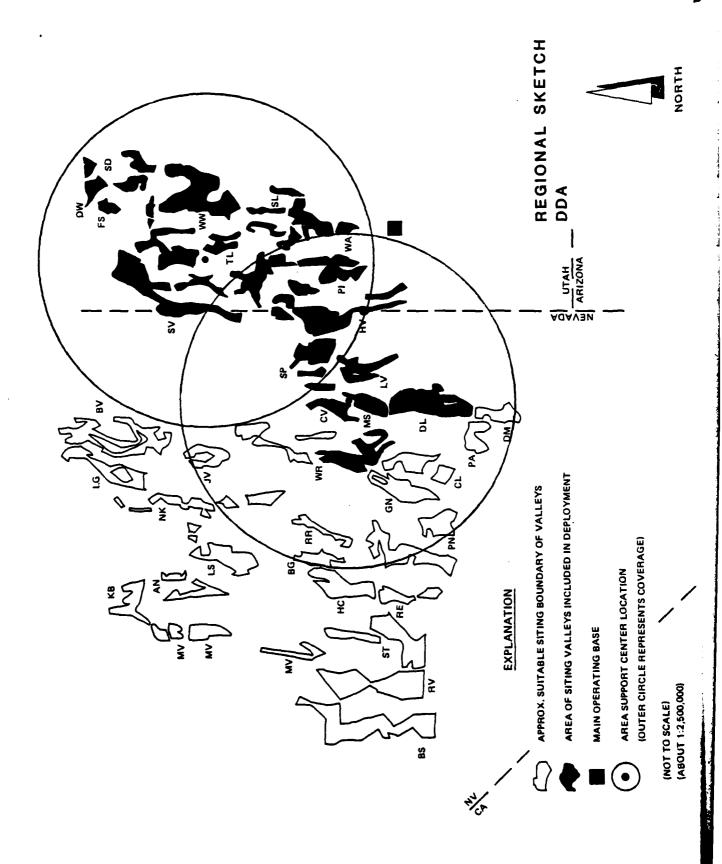
Best 4600 shelters and 15 percent - Milford MOB, avoid Delamar/Pahroc valleys (9

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	MQ	132	Hamlin	НΛ	333
Fish Springs Flat	FS	66	Hot Creek	HC	167
Pine	PI	249	Jakes	λſ	
Sevier Desert	SD	142	Kobeh	KB	
Sevier Lake	$S\Gamma$	70	Lake	ΓΛ	191
Snake	SV	650	Little Smoky	SI	
Tule	TL	367	Long	re Si	
Wah Wah	WA	213	Monitor	MΛ	
Whirlwind	WW	291	Muleshoe	WS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	212
Big Smoky	BS		Railroad	RR	273
Butte	BV		Ralston	RV	312
Cave	C	79	Reveille	RE	91
Coal	CL	219	Spring	SP	121
Delamar/Pahroc	ΨΩ	170	Stone Cabin	ST	331
Dry Lake	DĽ	284	White River	WR	265
Garden	В	161			
			TOTAL VALLEYS		24
					ຶຮ



Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water Best 4600 shelters and 15 percent - Milford MOB, avoid Delamar/Pahroc valleys B) 9

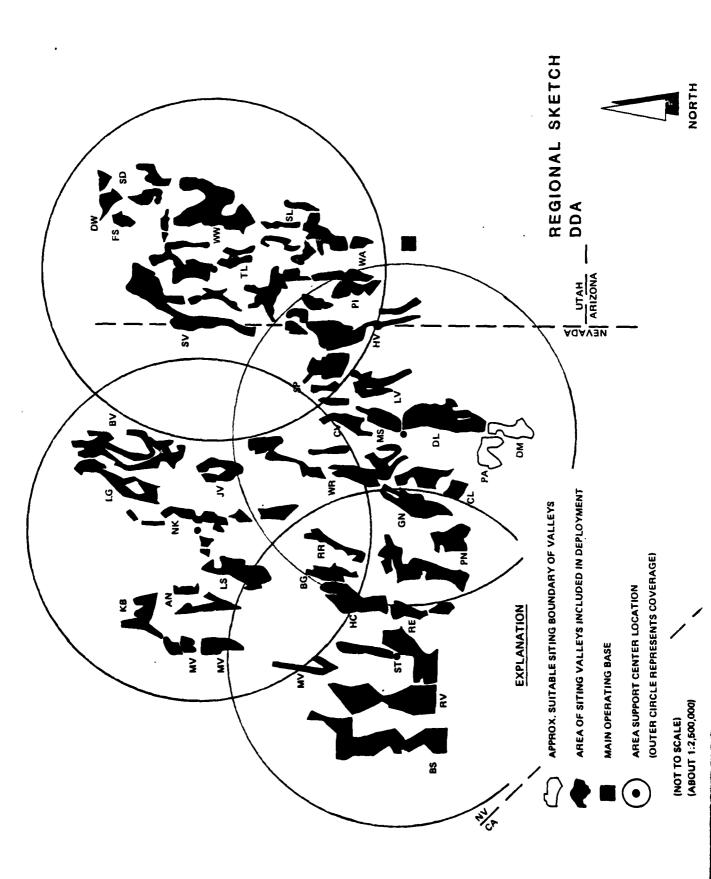
VALLEY	ABBRE-	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	ΜQ	198	Hamlin	НΛ	200
Fish Springs Flat	FS	148	Hot Creek	HC	
Pine	PI	374	Jakes	Δſ	
Sevier Desert	SD	213	Kobeh	KB	
Sevier Lake	$\mathbf{S}\mathbf{\Gamma}$	105	Lake	ΓΛ	286
Snake	SV	975	Little Smoky	LS	
Tule	TL	550	Long	LG	
Wah Wah	WA	320	Monitor	ΑV	
Whirlwind	M.	436	Muleshoe	WS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	118	Reveille	RE	
Coal	당		Spring	SP	182
Delamar/Pahroc	ΨQ		Stone Cabin	\mathbf{ST}	
Dry Lake	DĽ	426	White River	WR	398
Garden	QN				
					5351
					16
			TOTAL ASCS		7



C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

Best 4600 shelters and 15 percent - Milford MOB, avoid Delamar/Pahroc valleys (9

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DW	114	Hamlin	НΛ	186
Fish Springs Flat	FS	20	Hot Creek	HC	66
Pine	ΡΙ	242	Jakes	λſ	83
Sevier Desert	SD	62	Kobeh	KB	&
Sevier Lake	SL	57	Lake	ΓΛ	94
Snake	SV	390	Little Smoky	T.S	137
Tule	TL	198	Long	97	80
Wah Wah	WA	175	Monitor	ΔW	83
Whirlwind	WM	215	Muleshoe	WS	69
Antelope	AN	51	Newark	NK	96
Big Sand Springs	BG	57	Penoyer	PN	146
Big Smoky	BS	189	Railroad	RR	273
Butte	ВV	264	Ralston	RV	256
Cave	C C	70	Reveille	RE	74
Coal	<u>1</u>	201	Spring	SP	89
Delamar/Pahroc	DM		Stone Cabin	ST	159
Dry Lake	DĽ	267	White River	WR	191
Garden	NS CS	126			,
			Sagminans 14mOm		000
			TOTAL VALLEYS		4030 34
					4



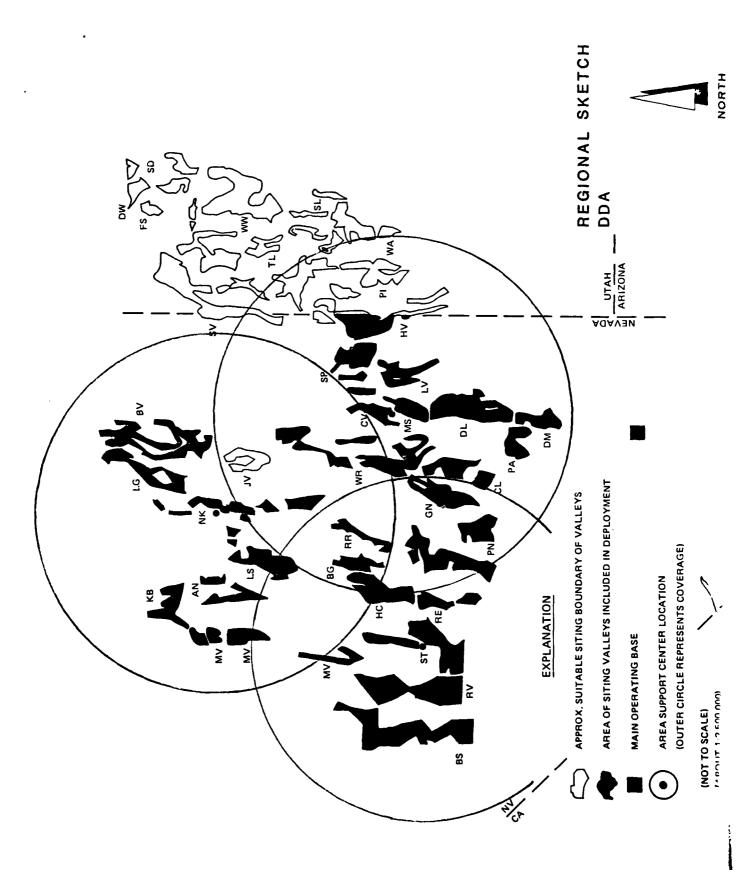
Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water Best 4600 shelters and 15 percent - Milford MOB, avoid Delamar/Pahroc valleys (a (9

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DΜ	171	Hamlin	HV	279
prings Flat	FS	75	Hot Creek	HC	148
	PI	363	Jakes	Δſ	
Sevier Desert	SD	93	Kobeh	KE	
Sevier Lake	\mathbf{SL}		Lake	ΓΛ	141
	SV	585	Little Smoky	E.S.	
	TL	297	Long	LG	
Wah Wah	WA	263	Monitor	MV	
Whirlwind	MM	322	Muleshoe	MS	104
Antelope	AN		Newark	NK	
nd Springs	BG		Penoyer	PN	219
oky	BS		Railroad	RR	246
	BV		Ralston	RV	384
	CV	105	Reveille	RE	111
	CL	302	Spring	SP	102
Delamar/Pahroc	ΨQ		Stone Cabin	ST	238
Dry Lake	Dľ	400	White River	WR	190
	NS GN	189			•
			TOTAL SHELTERS		5327
					23
			TOTAL ASCS		3

A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water 13-1) Best 4600 shelters and 15 percent - Coyote MOB, Nevada only

ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
		Hamlin	НV	208
Fish Springs Flat FS		Hot Creek	HC	167
Ιd		Jakes	λſ	
SD		Kobeh	KB	150
SL		Lake	ΓΛ	191
SV		Little Smoky	SI	195
TL		Long	91	125
WA		Monitor	MΛ	276
MM		Muleshoe	WS	81
	125	Newark	NK	177
	70	Penoyer	PN	212
BS	430	Railroad	RR	455
Butte	293	Ralston	RV	312
C	42	Reveille	RE	91
CI	219	Spring	SP	121
Delamar/Pahroc DM	170	Stone Cabin	ST	331
	284	White River	WR	398
NS	161			
		TOTAL SHELTERS		5321

TOTAL VALLEYS
TOTAL ACCS

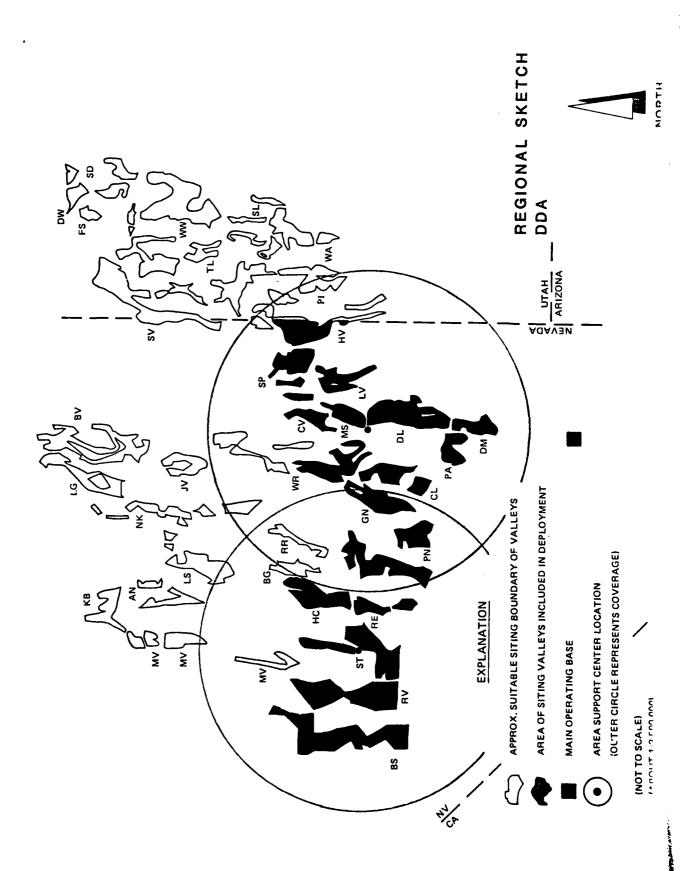


B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water Best 4600 shelters and 15 percent - Coyote MOB, Nevada only 13-1)

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	MQ		Hamlin	НΥ	312
Fish Springs Flat	FS		Hot Creek	HC	250
Pine	PI		Jakes	ΔΩ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	ΓΛ	286
Snake	SV		Sittle Smoky	LS	
Tule	TL		guon	ĽG	
Wah Wah	WA		Monitor	MΛ	
Whirlwind	WM		Muleshoe	WS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	318
Big Smoky	BS	645	Railroad	RR	410
Butte	BV		Ralston	RV	468
Cave	CA	118	Reveille	RE	136
Coal	CL	328	Spring	SP	182
Delamar/Pahroc	DM	255	Stone Cabin	ST	496
Dry Lake	DĽ	426	White River	WR	398
Garden	QN C	242			
			TOTAL SHELTERS		5392

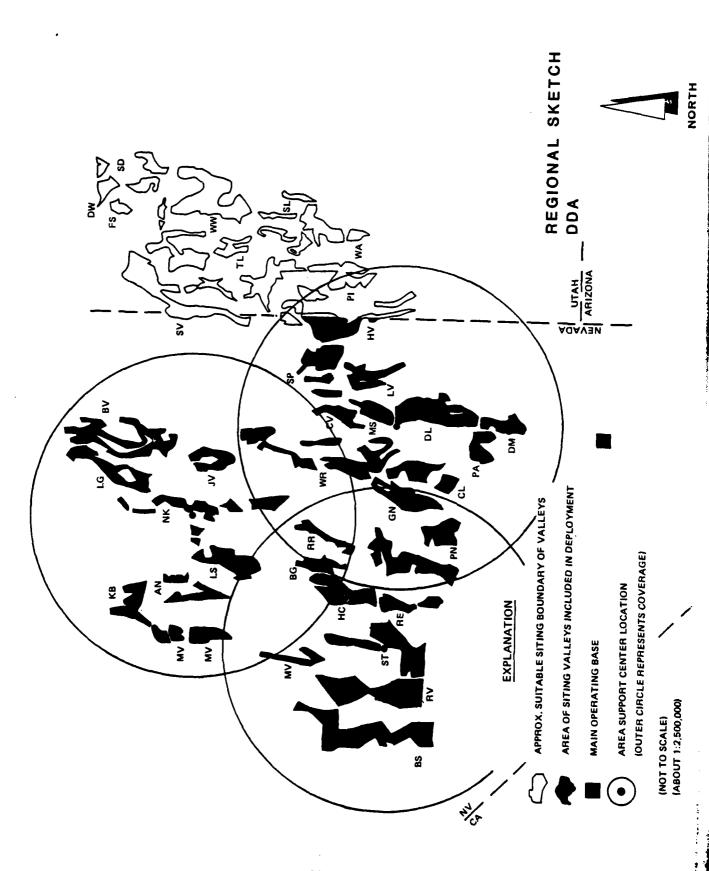
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TOTAL VALLEYS TOTAL ASCS



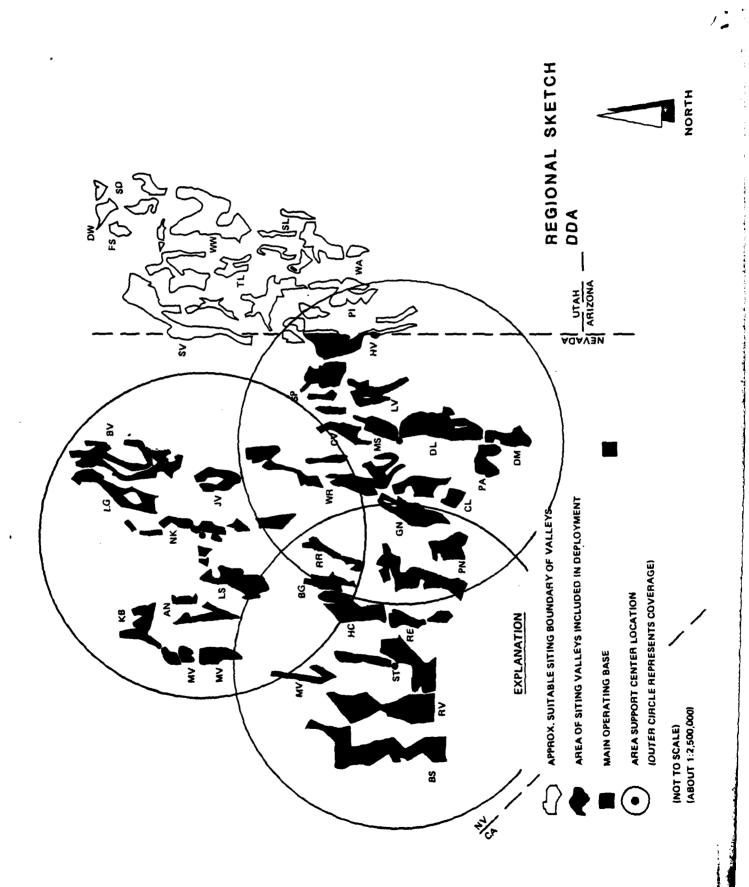
C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water 13-1) Best 4600 shelters and 15 percent - Coyote MOB, Nevada only

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	ΜQ		Hamlin	НΛ	116
Fish Springs Flat	FS		Hot Creek	HC	66
Pine	PI		Jakes	λſ	83
Sevier Desert	SD		Kobeh	KB	∞
Sevier Lake	$_{ m ST}$		Lake	ΓΛ	94
Snake	SV		Little Smoky	LS.	137
Tule	TL		Long	LG E	80
Wah Wah	WA		Monitor	MΛ	83
Whirlwind	WM		Muleshoe	MS	69
Antelope	AN	51	Newark	NK	96
Big Sand Springs	BG	57	Penoyer	PN	146
Big Smoky	BS	189	Railroad	RR	273
Butte	ВV	264	Ralston	RV	256
Cave	CV	70	Reveille	RE	74
Coal	CL	201	Spring	SP	68
Delamar/Pahroc	MQ	138	Stone Cabin	\mathbf{ST}	159
Dry Lake	DΓ	267	White River	WR	191
Garden	GN	126			



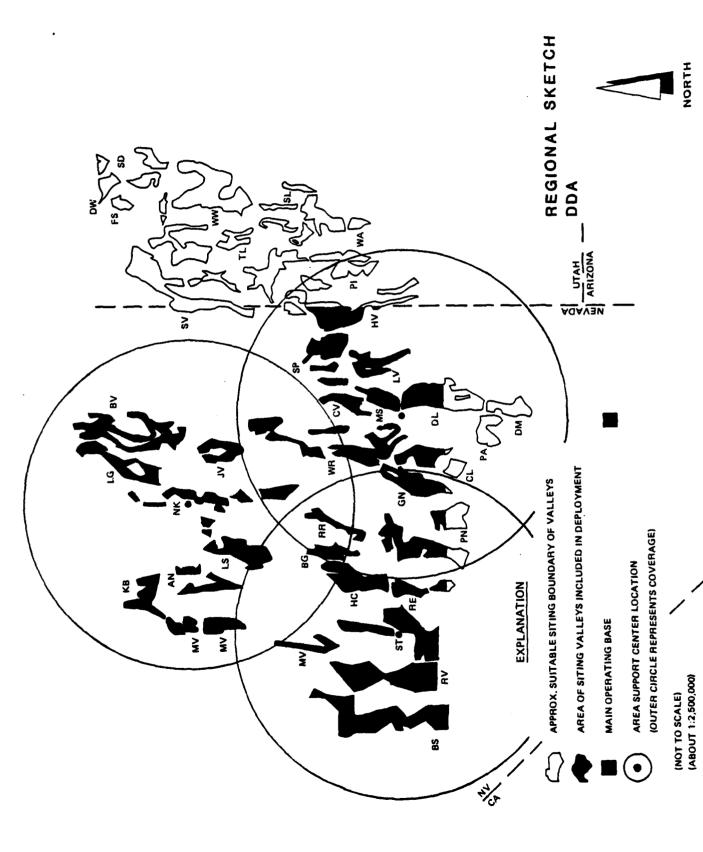
D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water Best 4600 shelters and 15 percent - Coyote MOB, Nevada only 13-1)

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	ΜQ		Hamlin	HV	174
Fish Springs Flat	FS		Hot Creek	HC	148
Pine	ΡΙ		Jakes	λſ	124
Sevier Desert	SD		Kobeh	КВ	12
Sevier Lake	$S\Gamma$		Lake	ľΛ	141
Snake	SV		Little Smoky	CT CT	206
Tule	TL		Long	P.G	120
Wah Wah	WA		Monitor	ΜV	124
Whirlwind	ΜM		Muleshoe	WS	104
Antelope	AN	9/	Newark	NK	144
Big Sand Springs	BG	86	Penoyer	PN	219
Big Smoky	BS	284	Railroad	RR	410
Butte	BV	396	Ralston	RV	384
Cave	C	105	Reveille	RE	111
Coal	CL	302	Spring	SP	102
Delamar/Pahroc	ωQ	207	Stone Cabin	ST	238
Dry Lake	DĽ	400	White River	WR	286
Garden	CN	189			
			Sque lans lemon		5002
			TOTAL VALLEYS		26
			TOTAL ASCS		3



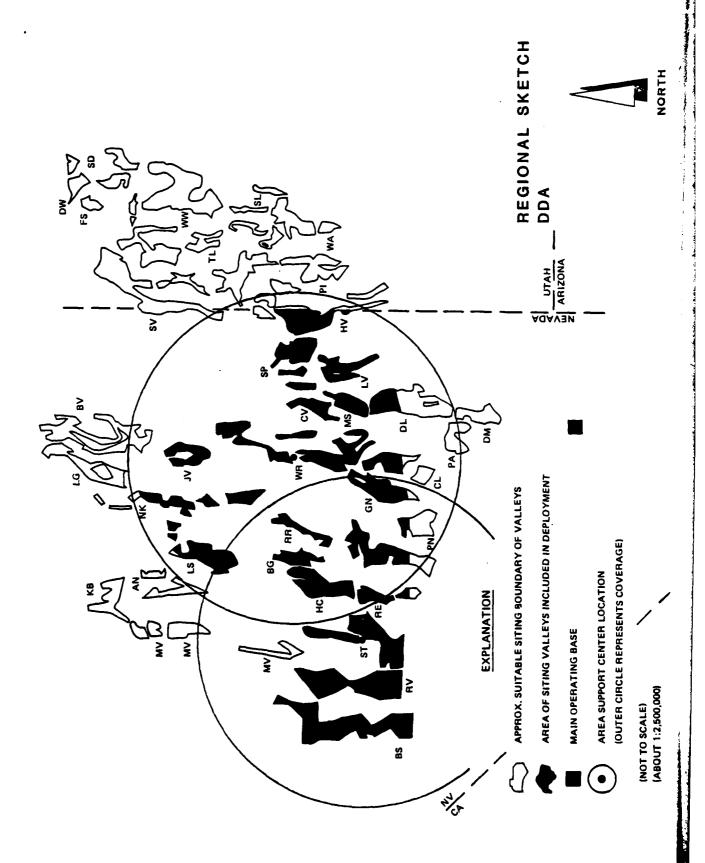
13-3) Best 4600 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas, Nevada only A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DW		Hamlin	HV	208
Fish Springs Flat	FS		Hot Creek	HC	167
Pine	PI		Jakes	3	68
Sevier Desert	SD		Kobeh	KB	150
Sevier Lake	$S\Gamma$		Lake	ΓΛ	191
Snake	SV		Little Smoky	FS	195
Tule	Ţ		Long	91	125
Wah Wah	WA		Monitor	ΜV	276
Whirlwind	WM		Muleshoe	MS	81
Antelope	AN	125	Newark	NK	177
Big Sand Springs /	BG	70	Penoyer	PN	35
Big Smoky	BS	430	Railroad	RR	355
Butte	BV	293	Ralston	RV	312
Cave	CA	42	Reveille	RE	73
Coal	CL	115	Spring	SP	121
Delamar/Pahroc	ωQ		Stone Cabin	ST	331
Dry Lake	DE	95	White River	WR	398
Garden	GN	110			1 1
			TOTAL VALLEYS		46U J 25
					î e



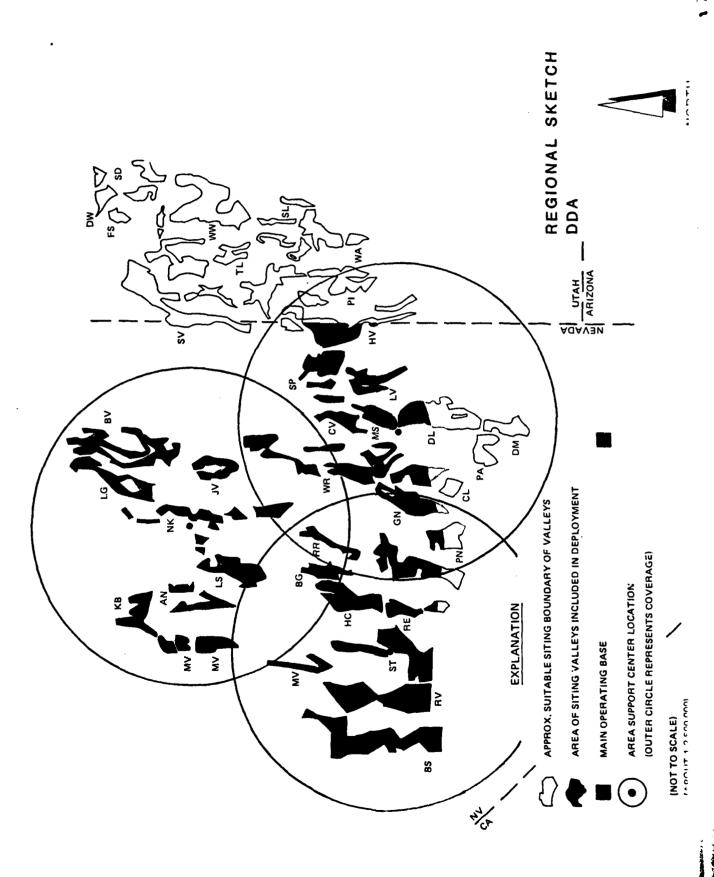
Best 4600 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas, Nevada only B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water 13-3)

NUMBER OF SHELTERS USED	312 250 134 286 280 200 532 532 468 110 182	
ABBRE- VIATION	HV HC KB LLS LLS LLG MN MN RR RR RR RR WR	
VALLEY	Hamlin Hot Creek Jakes Kobeh Lake Little Smoky Long Monitor Muleshoe Newark Penoyer Railroad Railroad Raiston Rabston Rabston Rabston Rabston Rabston Rabston Rabston	
NUMBER OF SHELTERS USED	105 645 118 172	165
ABBRE- VIATION	PI SD SL SD WW WA AN BG CC CC CC CC	N U
VALLEY	Dugway Fish Springs Flat Pine Sevier Desert Sevier Lake Snake Tule Wah Wah Whirlwind Antelope Big Sand Springs Big Smoky Butte Cave Coal Delamar/Pahroc Dry Lake	Garden



Best 4600 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas, C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water Nevada only 13-3)

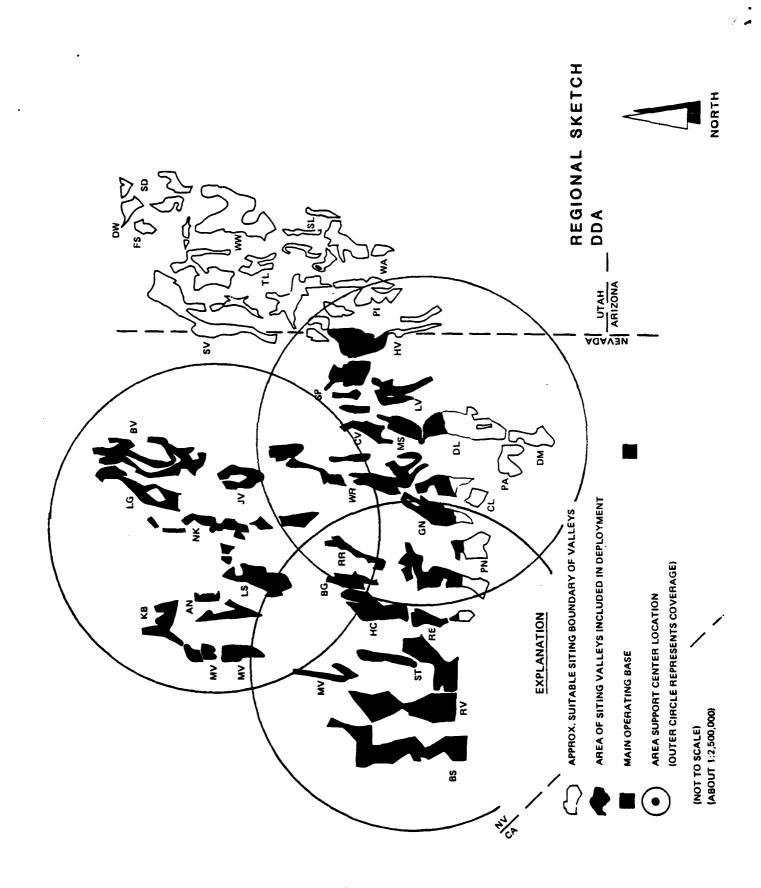
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	MQ		Hamlin	НУ	116
Fish Springs Flat	FS		Hot Creek	HC	66
Pine	PI		Jakes	λ	83
Sevier Desert	SD		Kobeh	KB	∞
Sevier Lake	\mathbf{SL}		Lake	ΓΛ	94
Snake	SV		Little Smoky	ΓS	137
Tule	TL		Long	5 <u>1</u>	80
Wah Wah	WA		Monitor	MV	83
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN	51	Newark	NK	96
Big Sand Springs	BG	57	Penoyer	PN	24
Big Smoky	BS	189	Railroad	RR	213
Butte	BV		Ralston	RV	256
Cave	CV	70	Reveille	RE	59
Coal	J.	106	Spring	SP	68
Delamar/Pahroc	ΜO		Stone Cabin	ST	159
Dry Lake	DĽ	68	White River	WR	191
Garden	S	86			
			TOTAL SHELTERS		2747
					25
			TOTAL ASCS		œ ,



13-3) Best 4600 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas, Nevada only D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

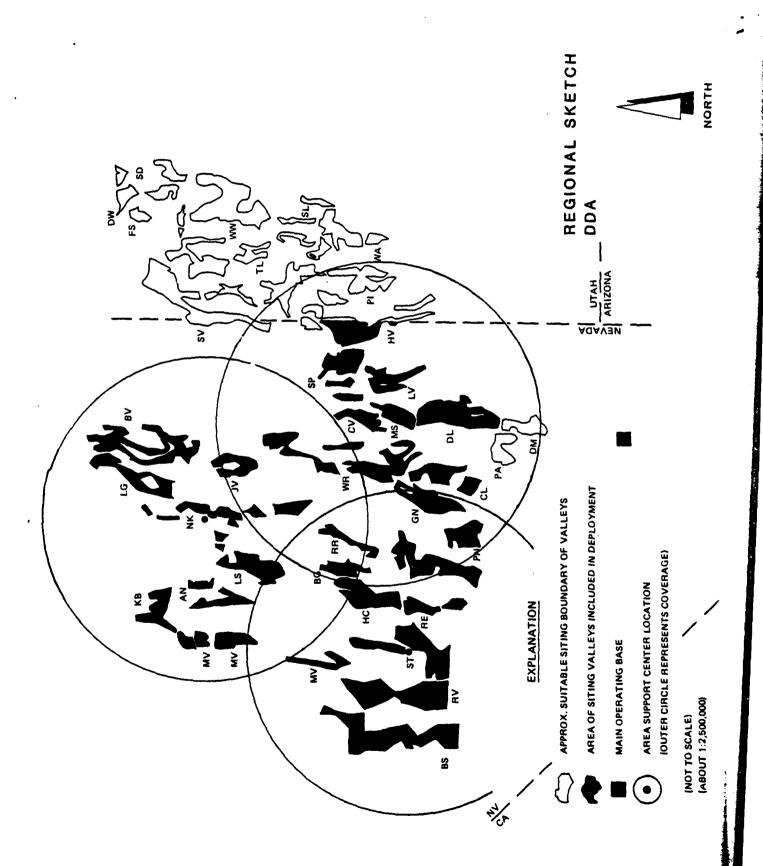
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VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	ΜQ		Hamlin	НΛ	174
Fish Springs Flat	FS		Hot Creek	HC	148
Pine	Id		Jakes	ΔΩ	124
Sevier Desert	SD		Kobeh	KB	12
Sevier Lake	$S\Gamma$		Lake	ΓΛ	141
Snake	SV		Little Smoky	LS	206
Tule	TL		Long	T.G	120
Wah Wah	WA		Monitor	MΩ	124
Whirlwind	ΜM		Muleshoe	MS	104
Antelope	AN	92	Newark	NK	144
Big Sand Springs	BG	86	Penoyer	PN	36
Big Smoky	RS	284	Railroad	RR	320
Butte	BV	396	Ralston	RV	384
Cave	CV	105	Reveille	RE	88
Coal	CL	159	Spring	SP	102
Delamar/Pahroc	ω		Stone Cabin	ST	230
Dry Lake	DL	134	White River	WR	286
Garden	GN	129			
			TOTAL SHELTERS		4120
			TOTAL VALLEYS		25



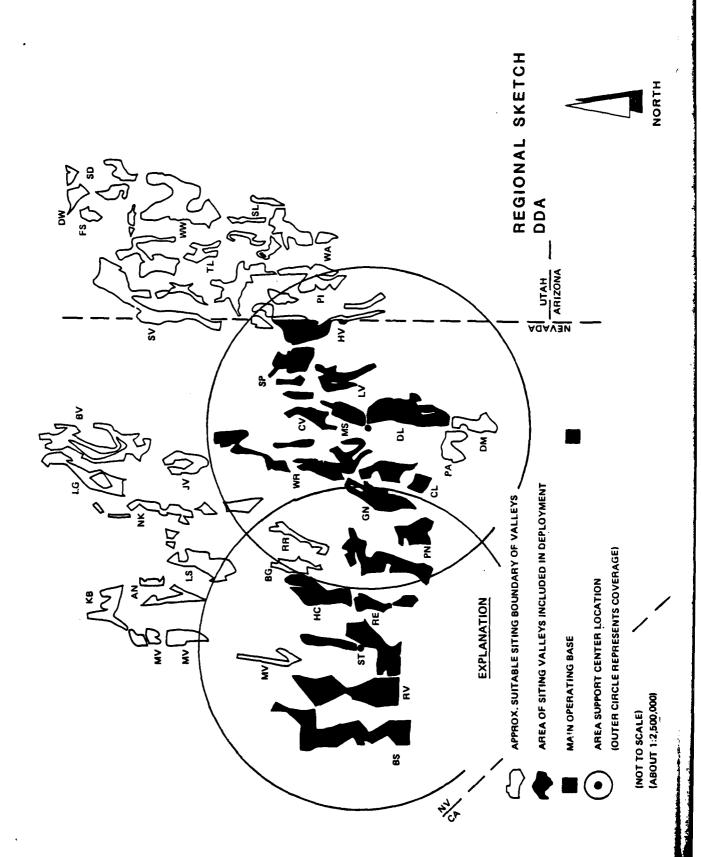
A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water 13-5) Best 4600 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys, Nevada only

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DW		Hamlin	НΛ	208
Fish Springs Flat	FS		Hot Creek	HC	167
Pine	PI		Jakes	λ	68
Sevier Desert	SD		Kobeh	KB	150
Sevier Lake	$S\Gamma$	•	Lake	ΓΛ	191
Snake	SΛ		Little Smoky	LS.	195
Tule	TL		Long	51	125
Wah Wah	WA		Monitor	MΛ	276
Whirlwind	MM		Muleshoe	MS	81
Antelope	AN	125	Newark	NK	177
Big Sand Springs	BG	70	Penoyer	PN	212
Big Smoky	BS	430	Railroad	RR	455
Butte	ΒV	293	Ralston	RV	312
Cave	C C	79	Reveille	RE	91
Coal	CF	219	Spring	SP	121
Delamar/Pahroc	ΨΩ		Stone Cabin	ST	331
Dry Lake	'n	284	White River	WR	398
Garden	GN	161			
			TOTAL CHELTERS		5240
					25
					3



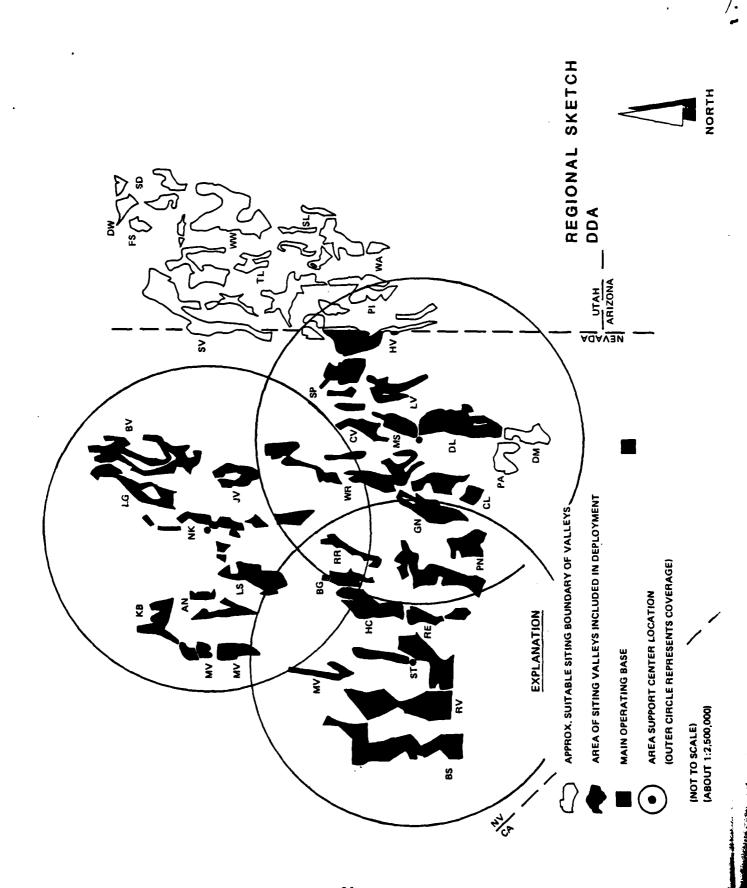
B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water Best 4600 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys, Nevada only 13-5)

NUMBER OF SHELTERS USED	312	250			286				122		318	410	468	136	182	496	597		5336	16	2 2
ABBRE- VIATION	НУ	HC	λſ	KB	ΓΛ	LS	97	MV	WS	NK	PN	RR	RV	RE	SP	\mathbf{ST}	WR				
VALLEY	Hamlin	Hot Creek	Jakes	Kobeh	Lake	Little Smoky	Long	Monitor	Muleshoe	Newark	Penoyer	Railroad	Ralston	Reveille	Spring	Stone Cabin	White River		Seam Talls 1kmOm		-
NUMBER OF SHELTERS USED												645		118	328		426	242			
ABBRE- VIATION	MQ	FS	PI	SD	\mathbf{SL}	SV	TL	WA	WM	AN	BG	BS	BV	S	$C\Gamma$	W.C	DĽ	СN			
VALLEY	Dugway	Fish Springs Flat	Pine	Sevier Desert	Sevier Lake	Snake	Tule	Wah Wah	Whirlwind	Antelope	Big Sand Springs	Big Smoky	Butte	Cave	Coal	Delamar/Pahroc	Dry Lake	Garden			



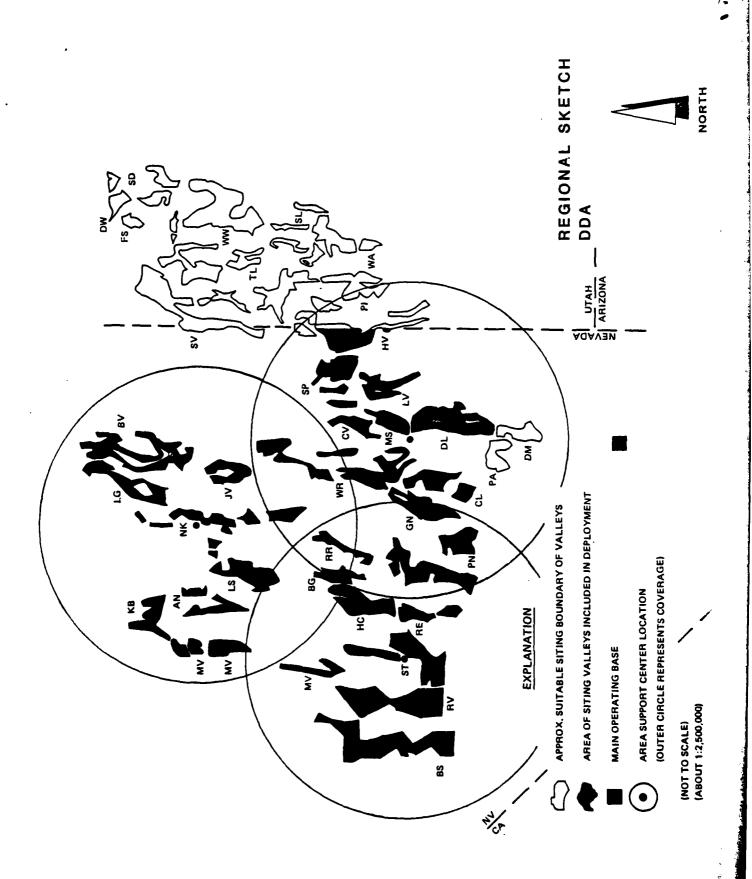
C) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water 13-5) Best 4600 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys, Nevada only

		:			
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	MQ		Hamlin	HV	116
Fish Springs Flat	FS		Hot Creek	HC	66
Pine .	ΡΙ		Jakes	λ	83
Sevier Desert	SD		Kobeh	KB	80
Sevier Lake	SL		Lake	ΓΛ	94
Snake	SV		Little Smoky	S'T	137
Tule	TL		Long	EG E	80
Wah Wah	WA		Monitor	MΛ	83
Whirlwind	WM		Muleshoe	WS	69
Antelope	AN	51	Newark	NK	96
Big Sand Springs	BG	57	Penoyer	PN	146
Big Smoky	BS	189	Railroad	RR	273
Butte	BV	264	Ralston	RV	256
Cave	CV	70	Reveille	RE	74
Coal	CL	201	Spring	SP	89
Delamar/Pahroc	ΜΩ		Stone Cabin	ST	159
Dry Lake	DF	267	White River	WR	191
Garden	N G	126			
			TOTAL SHELTERS		3257
			TOTAL VALLEYS		25
			1 C C # L # E C E		



D) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water 13-5) Best 4600 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys, Nevada only

VALLEY Dugway Fish Springs Flat FS Pine Sevier Desert Sevier Lake Superposert Superposert	WALLEY Hamlin Hot Creek Jakes Kobeh Lake	ABBRE- VIATION HV HC JV KB LV LS	NUMBER OF SHELTERS USED 174 148 124 124 141
	Long Monitor Muleshoe	MV WS	120 124 104
Antelope AN 76 Big Sand Springs BG 86 Big Smoky BS 284	Newark Penoyer Railroad	NK PN	144 219 410
	Raiston Reveille Spring Stone Cabin	RE SP	364 111 102 238
DL 400 GN 189	White River	WR	286



3.0 2300 SHELTER OPTIONS

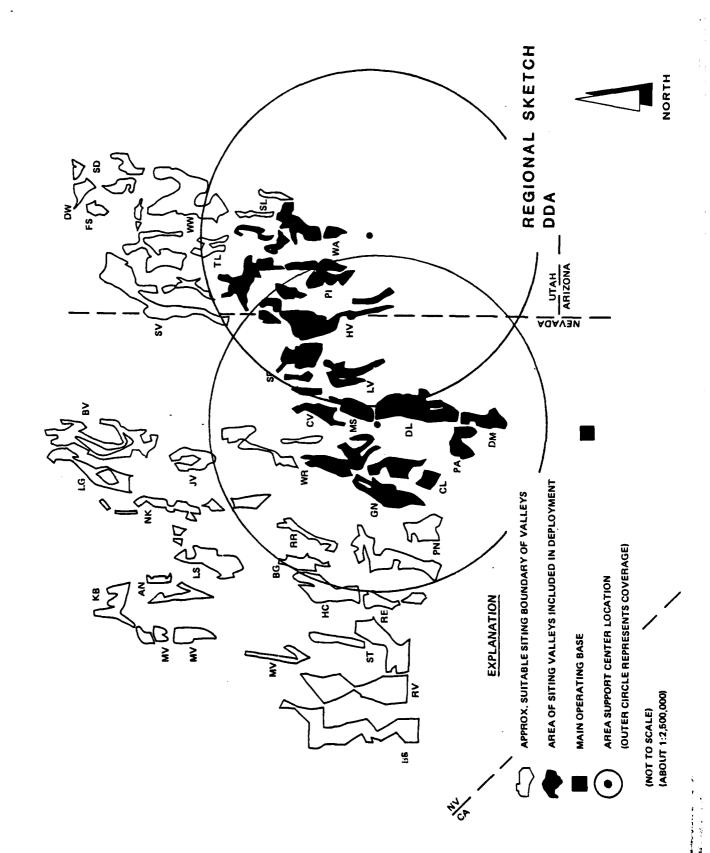
3.0 2300 SHELTER OPTIONS

This section contains options for 2300 shelters as specified in Section 1.1.

Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water A)

Best 2300 shelters and 15 percent - Coyote MOB, Milford ASC 7

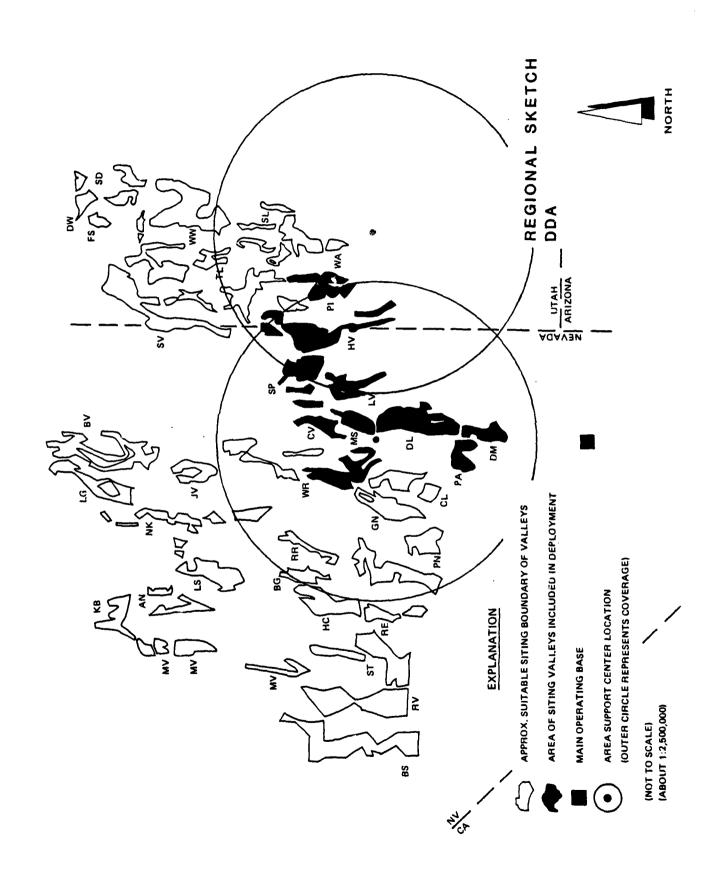
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DW		Hamlin	НУ	333
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	249	Jakes	Jζ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SI		Lake	ΓΛ	191
Snake	SV	247	Little Smoky	LS	
Tule	TL	77	Long	1.G	
Wah Wah	WA	213	Monitor	MΩ	
Whirlwind	WM		Muleshoe	WS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	C	79	Reveille	RE	
Coal	CF	219	Spring	SP	121
Delamar/Pahroc	DΜ	170	Stone Cabin	\mathbf{ST}	
Dry Lake	DĽ	284	White River	WR	265
Garden	GN	161			
			Seem tens tance		2690
					14
					2



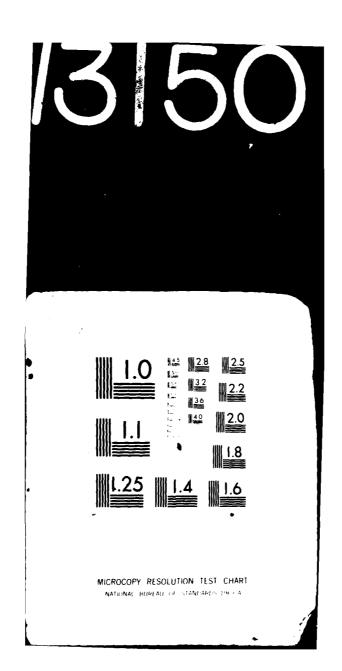
Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water B)

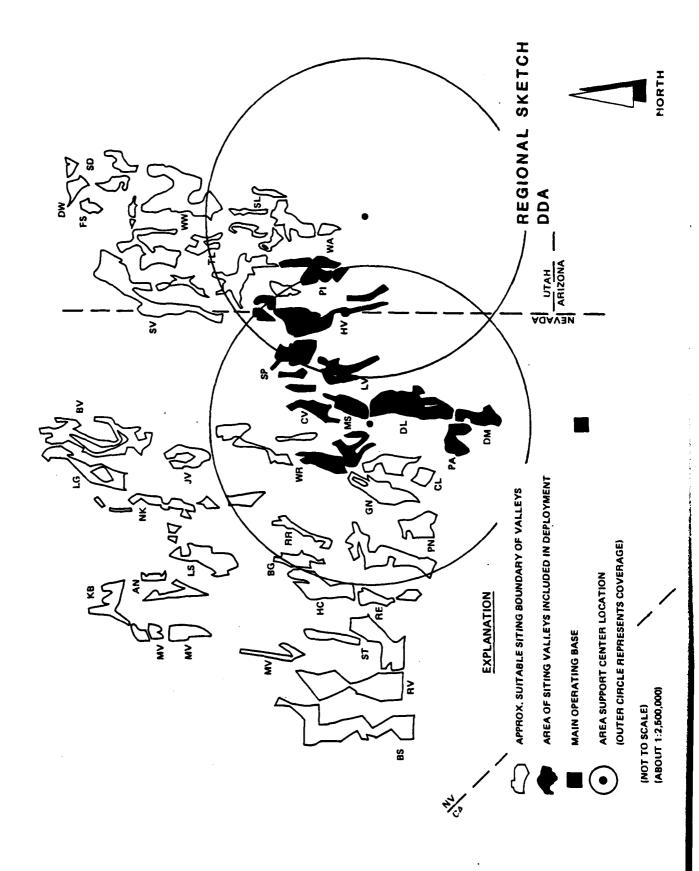
Best 2300 shelters and 15 percent - Coyote MOB, Milford ASC 7

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
>-	DW		Hamlin	НΛ	200
Springs Flat	FS		Hot Creek	HC	
Pine	ΡΙ	374	Jakes	λſ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	ΓΛ	286
Snake	SV		Little Smoky	ST	
	TL		Long	PC	
Wah Wah	WA		Monitor	MΩ	
Whirlwind	MM		Muleshoe	MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
moky	BS		Railroad	RR	
Butte	ВV		Ralston	RV	
	C	118	Reveille	RE	
	CI.		Spring	SP	182
Delamar/Pahroc	ωO	255	Stone Cabin	ST	
Dry Lake	DĽ	426	White River	WR	398
Garden	GN				
			TOTAL SHELTERS		1997
					5 2



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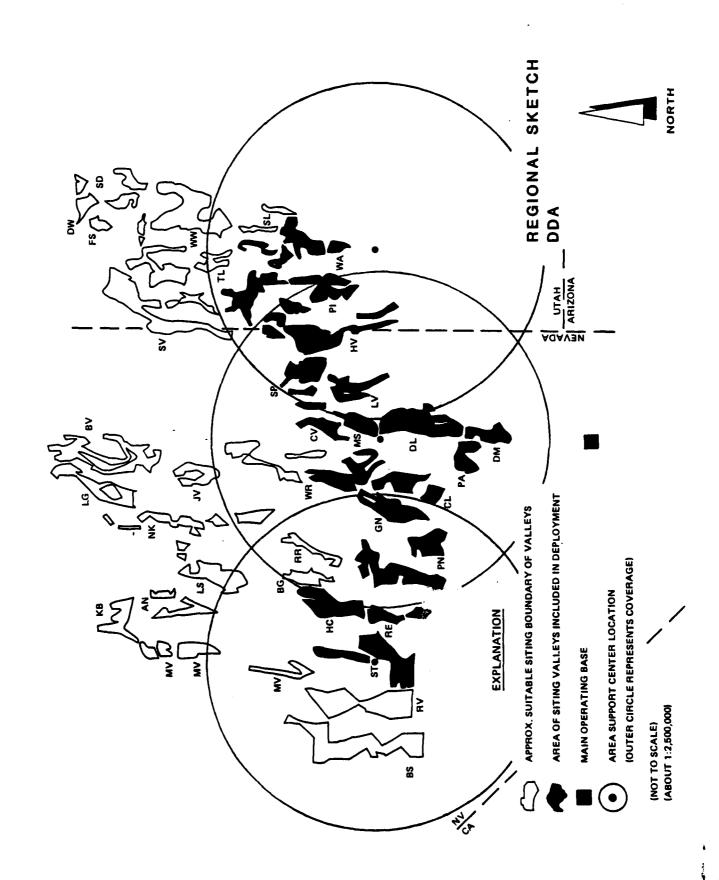




C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

Best 2300 shelters and 15 percent - Coyote MOB, Milford ASC 7)

VALLEY	ABBRE-	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway Fish Springs Flat	DW FS		Hamlin Hot Creek	HV	186 99
Pine	PI	242	Jakes	ß	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	\mathbf{SL}		Lake	ΓΛ	46
Snake	SV	148	Little Smoky	L.S	
Tule	TĽ	42	Long	ĽG	
Wah Wah	WA	213	Monitor	MΩ	
Whirlwind	MM		Muleshoe	MS	69
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	146
Big Smoky	BS		Railroad	RR	164
Butte	BV		Ralston	RV	
Cave	C	70	Reveille	RE	74
Coal	CI	201	Spring	SP	89
Delamar/Pahroc	ΨΩ	138	Stone Cabin	ST	159
Dry Lake	Dľ	267	White River	WR	127
Garden	CN	126			
			TOTAL SHELTERS		2633
			TOTAL VALLEYS		19
			TOTAL ASCS		m

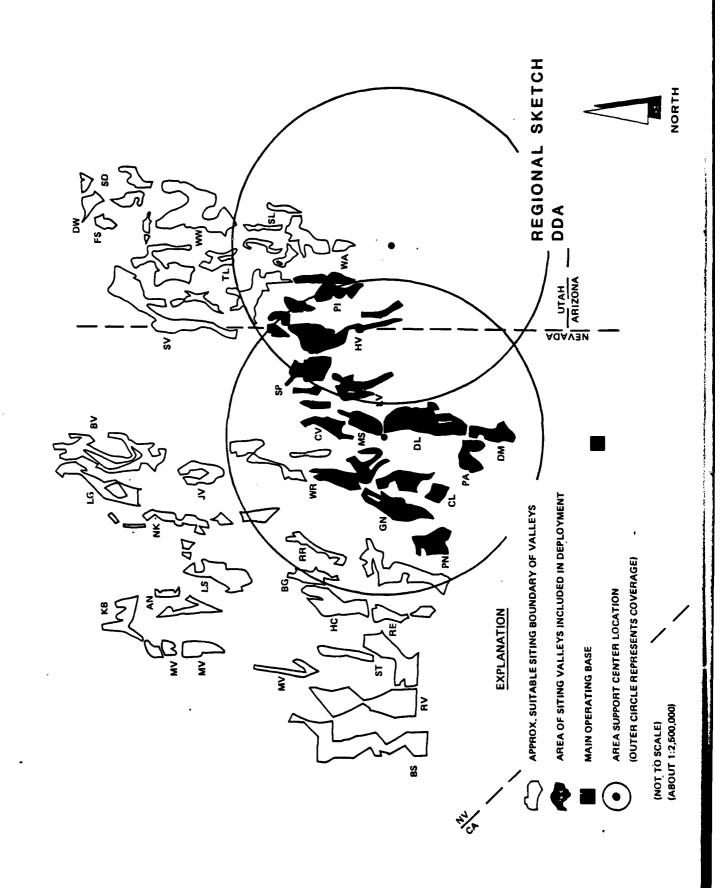


D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

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Best 2300 shelters and 15 percent - Coyote MOB, Milford ASC

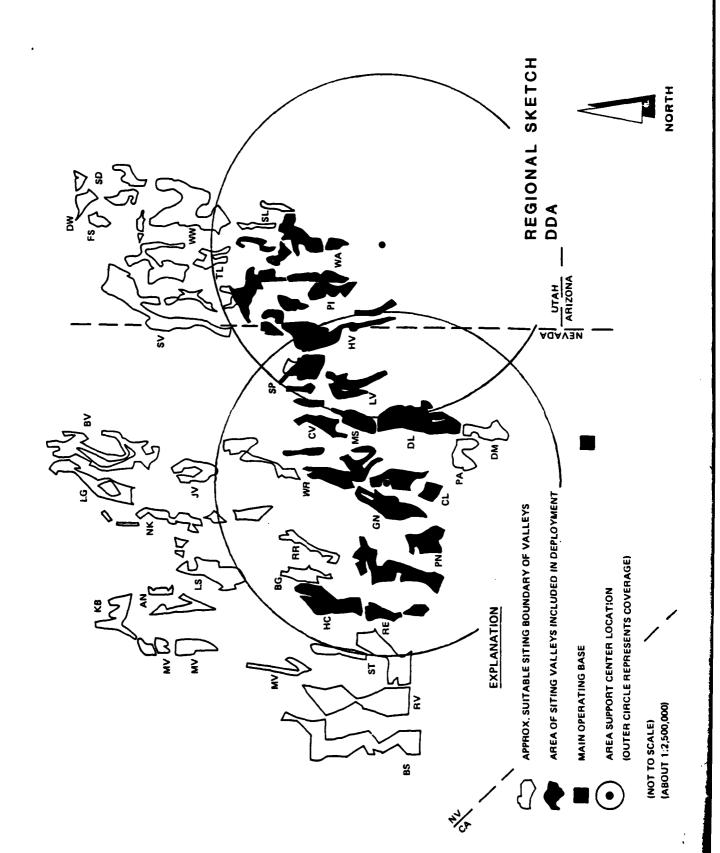
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugge	DW		Hamlin	НУ	279
Fish Springs Flat	FS		Hot Creek	HC	
Pine	ΡΙ	363	Jakes	λſ	
Sevier Desert	QS .		Kobeh	KB	
Sevier Lake	SL		Lake	ΓΛ	141
Snake	SV	49	Little Smoky	LS	
Tule	TL		Long	ស្ន	
Wah Wah	WA		Monitor	ΜV	
Whirlwind	MM		Muleshoe	. SW	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG	,	Penoyer	M	219
Big Smokv	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CC	105	Reveille	RE	
Coal	CF	302	Spring	SP	102
Delamar/Pahroc	ΨΩ	207	Stone Cabin	\mathbf{ST}	
Dry Lake	DL	400	White River	WR	190
Garden	GN	189			
					0976
					2650
			TOTAL VALLETS		<u>.</u> ~
					ı



Horizontal shelters - 23:1 clustered using Ertec's 15 May numbers (E

7) Best 2300 shelters - Coyote MOB, Milford ASC

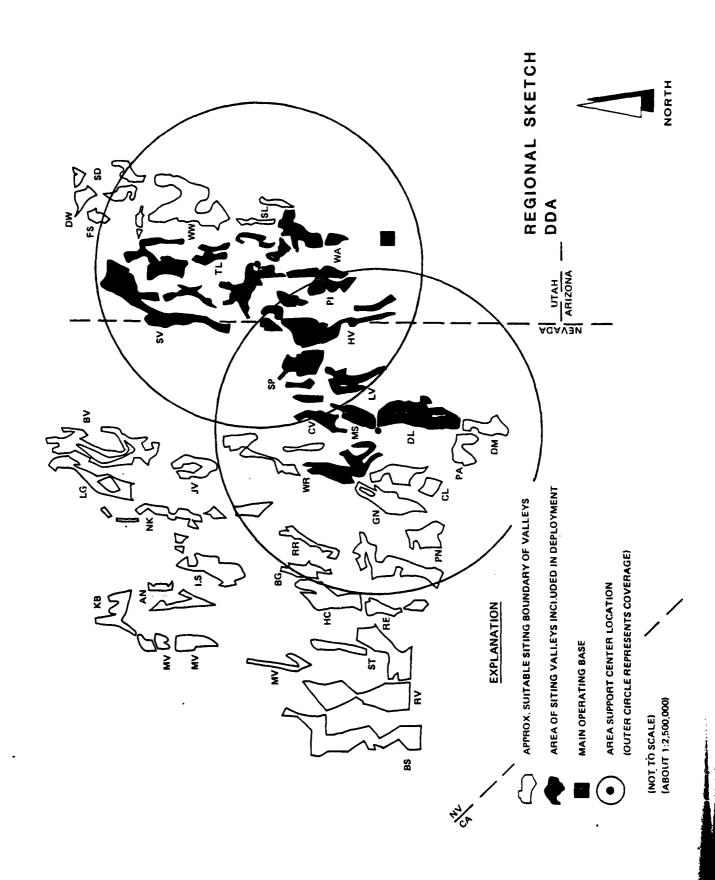
ABBRE- NUMBER OF VIATION SHELTERS USED		761 LS LG MV MS	NK NK PN 115 RV 184 RV 69 SP 92	WR 207
VALLEY	Hamlin Hot Creek Jakes Kobeh	Lake Little Smoky Long Monitor	Newark Newark Penoyer Railroad Ralston Reveille Spring	White River
NUMBER OF SHELTERS USED	115	92 46 115	69 138 138	230
ABBRE- VIATION	DW FS SD	SV TL WA	BB BV CV CL	12 5
VALLEY	Dugway Fish Springs Flat Pine Sevier Desert	Sevier Lake Snake Tule Wah Wah	Antelope Big Sand Springs Big Smoky Butte Cave Coal	Dry Lake



Horiztonal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water A)

8) Best 2300 shelters and 15 percent - Milford MOB

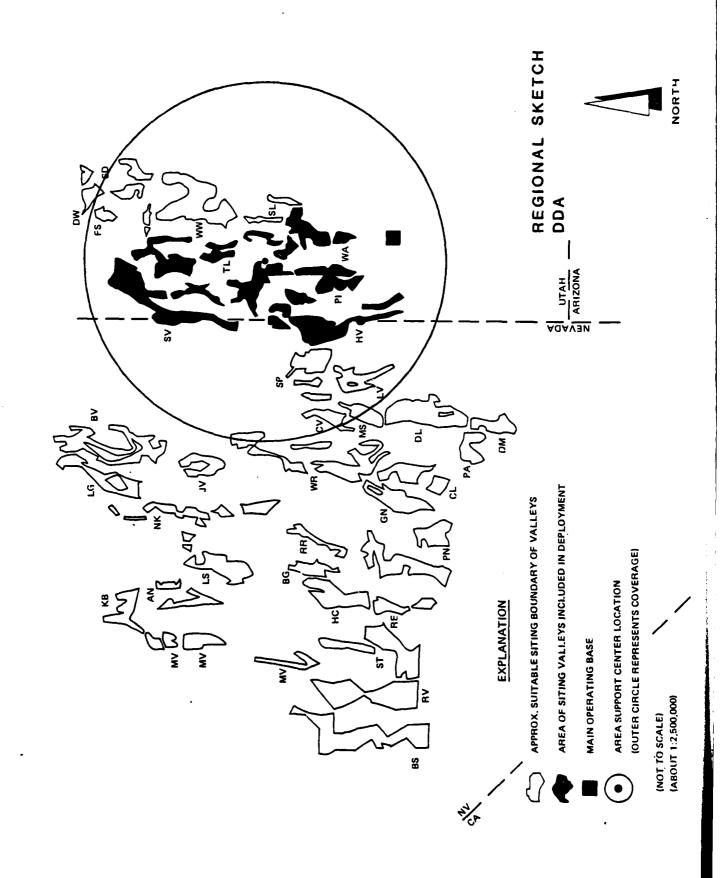
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DW		Hamlin	НУ	333
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	249	Jakes	JΛ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	ΓΛ	191
Snake	SV	650	Little Smoky	rs	
Tule	TL	367	Long	91	
Wah Wah	WA	213	Monitor	MΩ	
Whirlwind	WW		Muleshoe	MS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	C	79	Reveille	RE	
Coal	CF		Spring	SP	121
Delamar/Pahroc	ωQ		Stone Cabin	\mathbf{ST}	
Dry Lake	DF	284	White River	WR	265
Garden	CN				
			SORP TOUS TAMOR		2833
			TOTAL VALLEYS		
					2



Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water B)

8) Best 2300 shelters and 15 percent - Milford MOB

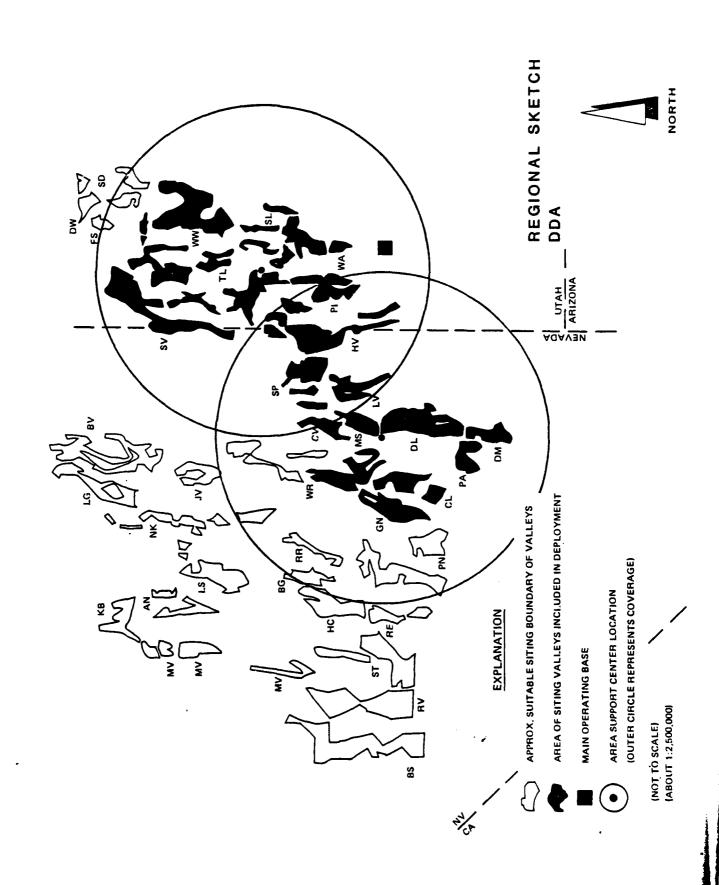
VALLEY	ABBRE-	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Durway F on Springs Flat P ne Sevier Desert Covier Lake Wah Wah Whirlwind Antelope Big Sand Springs Big Smoky Butte Cave Coal Delamar/Pahroc Dry Lake	FS SU	374 975 550 320	Hamlin Hot Creek Jakes Kobeh Lake Little Smoky Long Monitor Muleshoe Newark Penoyer Railroad Railroad Raiston Reveille Spring Stone Cabin White River	HV JV LLV LLS LLS LG RN NK RR RR SP SP SP SP	200
		·	TOTAL SHELTERS TOTAL VALLEYS TOTAL ASCS		2719 5 1



C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water

8) Best 2300 shelters and 15 percent - Milford MOB

VALLEY	ABBRE-	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	ΜQ		Hamlin	HV	186
Fish Springs Flat	FS	23	Hot Creek	웃	
Pine	PI	242	Jakes	λſ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	1 S	57	Lake	ΓΛ	94
Snake	SV	390	Little Smoky	LS	
Tule	TL	198	Long	ĽG	
Wah Wah	WA	175	Monitor	ΔM	
Whirlwind	MM	215	Muleshoe	MS	69
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CA	70	Reveille	RE	
Coal	CL	201	Spring	SP	68
Delamar/Pahroc	ωO	138	Stone Cabin	\mathbf{ST}	
Dry Lake	DL	267	White River	WR	127
Garden	GN	126			
			SGATIAHS IGTOR		2646
			TOTAL VALLEYS		17
					2

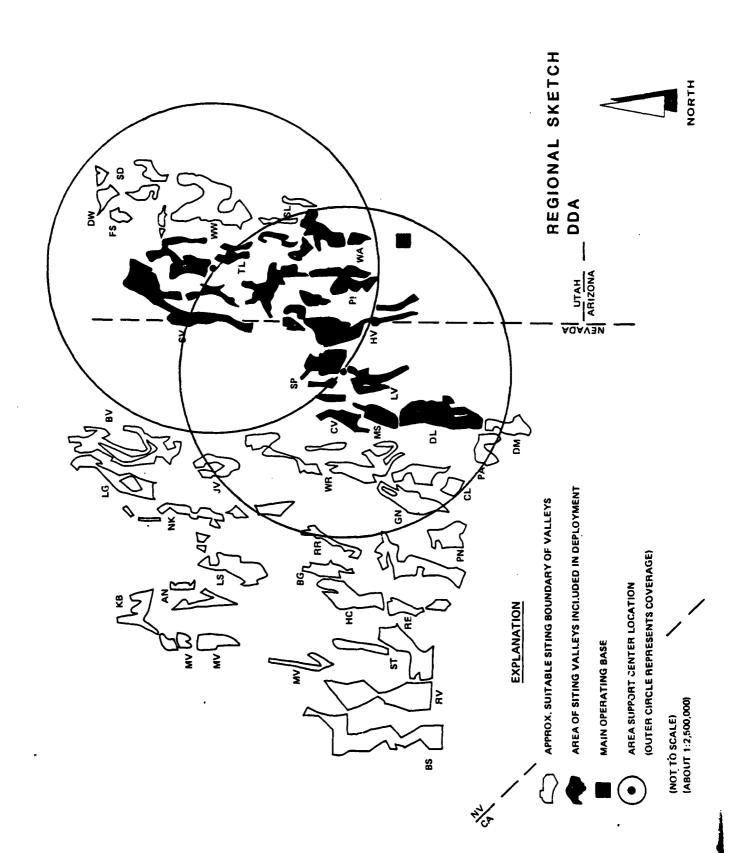


Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water â

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8) Best 2300 shelters and 15 percent - Milford MOB

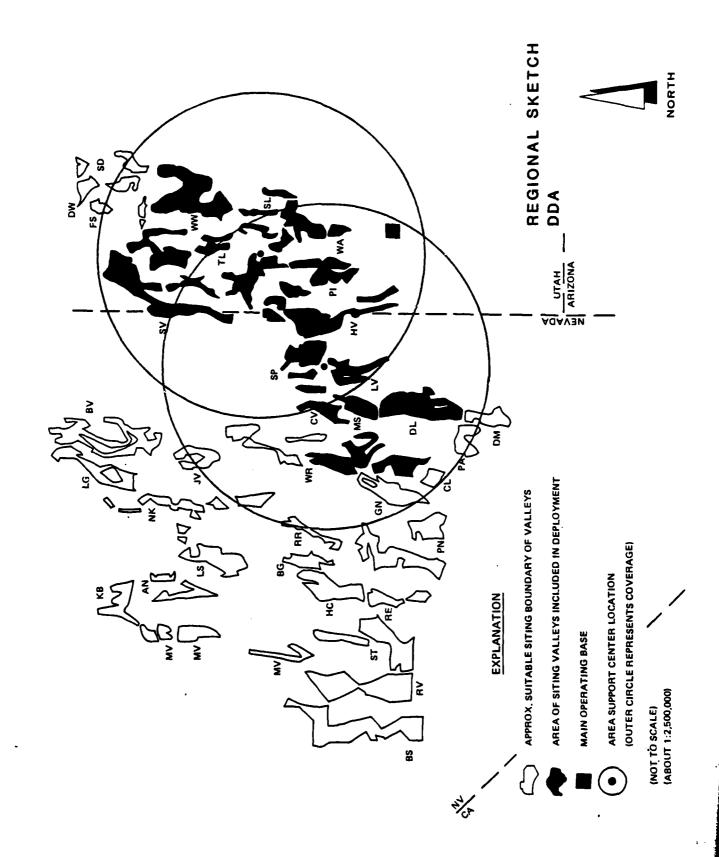
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	MO		Hamlin	НУ	279
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	363	Jakes	λſ	
Sevier Desert	SD		Kobeh	КВ	
Sevier Lake	SL		Lake	ΓΛ	141
Snake	SV	585	Little Smoky	LS	
Tule	TL	297	Long	ĽG	
Wah Wah	WA	263	Monitor	ΔM	
Whirlwind	WM		Muleshoe	WS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	105	Reveille	RE	
Coal	CI		Spring	SP	102
Delamar/Pahroc	ΜΩ		Stone Cabin	ST	
Dry Lake	DĽ	400	White River	WR	
Garden	S				
					2630
			TOTAL VALLEYS		10
					2



Horizontal shelters - 23:1 clustered using Ertec's 15 May numbers E)

8) Best 2300 shelters - Milford MOB

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	MQ		Hamlin	НΛ	230
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	115	Jakes	37	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	\mathbf{SL}	23	Lake	ΓΛ	161
Snake	SV	437	Little Smoky	LS	
Tule	TĽ	230	Long	57	
Wah Wah	WA	115	Monitor	MΛ	
Whirlwind	WW	276	Muleshoe	æ	69
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	C	69	Reveille	RE	
Coal	CL	92	Spring	SP	92
Delamar/Pahroc	WQ		Stone Cabin	ST	
Dry Lake	DĽ	230	White River	WR	161
Garden	GN				
					2300
					14
			TOTAL ASCS		2

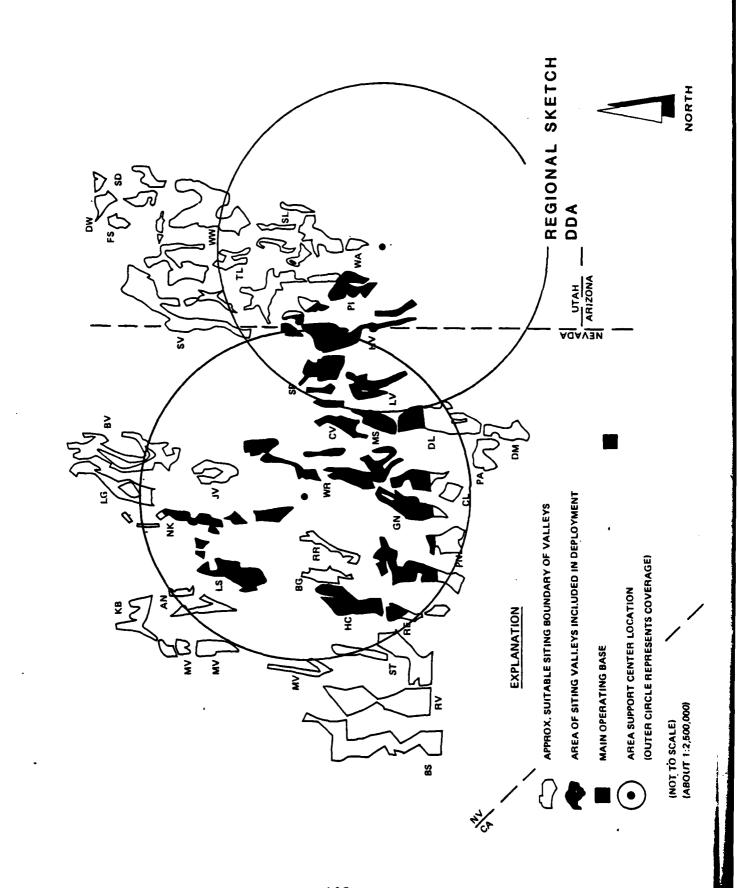


Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water A

Best 2300 shelters and 15 percent - Coyote MOB, Milford ASC, avoid all MOAs and Restricted Areas 6

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DW		Hamlin	НУ	300
Fish Springs Flat	FS		Hot Creek	HC	167
Pine	PI	166	Jakes	λſ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	$S\Gamma$		Lake	ΓΛ	191
Snake	SV	26	Little Smoky	ĽS	195
Tule	TL		Long	23	
Wah Wah	WA		Monitor	MΩ	
Whirlwind	WM		Muleshoe	WS	81
Antelope	AN		Newark	NK	165
Big Sand Springs	BG		Penoyer	PN	35
Big Smoky	BS		Railroad	RR	355
Butte	BV		Ralston	RV	
Cave	ςς	79	Reveille	æ	45
Coal	CL	115	Spring	SP	121
Delamar/Pahroc	ωQ		Stone Cabin	ST	
Dry Lake	D[95	White River	WR	398
Garden	GN	110			

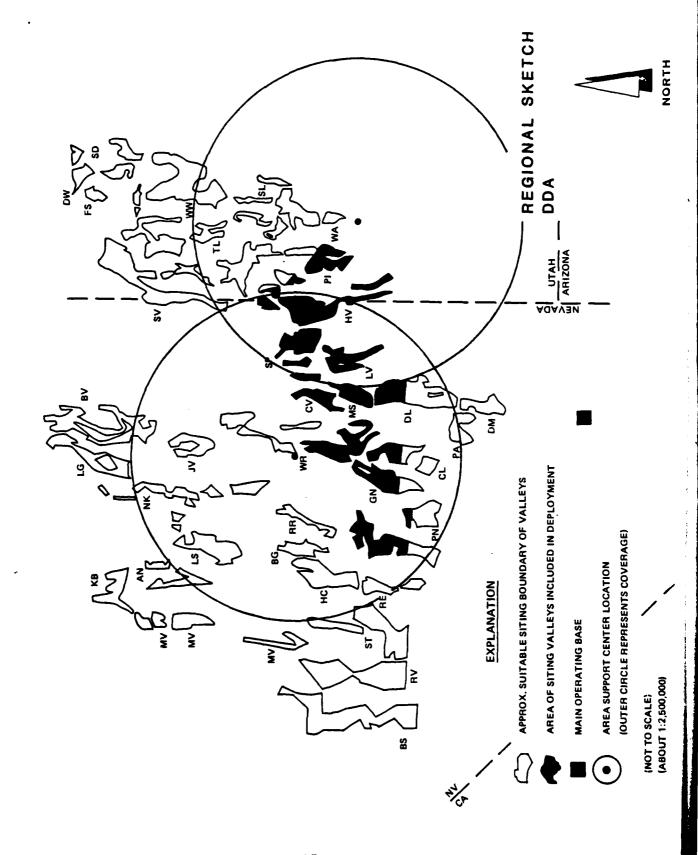
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Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water B)

Best 2300 shelters and 15 percent - Coyote MOB, Milford ASC, avoid all MOAs and Restricted Areas 6

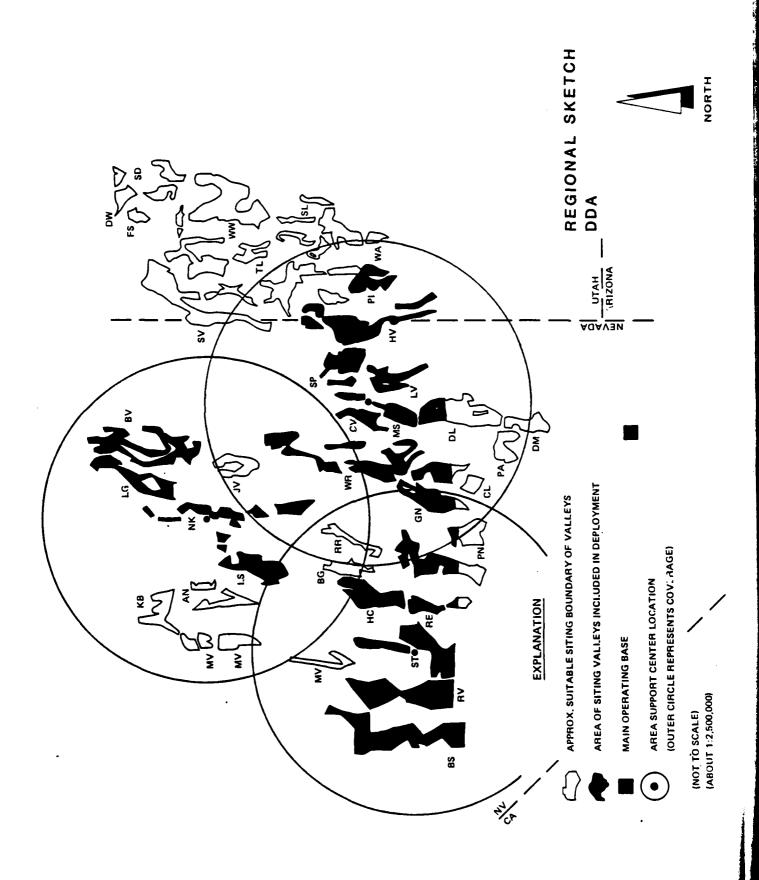
NUMBER OF SHELTERS USED	450			286				122		52	260			182		398	
ABBRE- VIATION	HV	ΔC	KB	ΓΛ	LS	FG	MΩ	MS	NK	PN	RR	RV	RE	SP	ST	WR	
VALLEY	Hamlin Hot Creek	Jakes	Kobeh	Lake	Little Smoky	Long	Monitor	Muleshoe	Newark	Penoyer	Railroad	Ralston	Reveille	Spring	Stone Cabin	White River	
NUMBER OF SHELTERS USED		249			39								118	172		142	165
ABBRE- VIATION	DW FS	PI	SD	\mathbf{SL}	SV	TL	WA	MM	AN	BG	BS	BV	S	CL	ωQ	DĽ	N G N
	Dugway Fish Springs Flat		Sevier Desert							rings	Big Smoky				Delamar/Pahroc		



Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water (၁

Best 2300 shelters and 15 percent - Coyote MOB, Milford ASC, avoid all MOAs and Restricted Areas 6

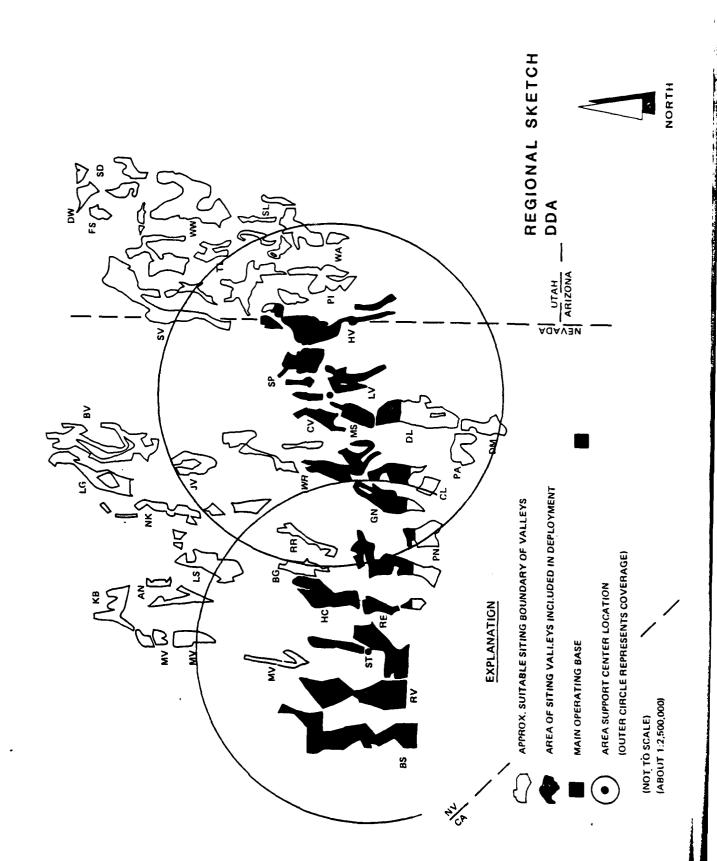
NUMBER OF SHELTERS USED	168 99	94	08	96 24	213 256 59	68 159	191	2678 21 3
ABBRE- VIATION	HC JV	KB LV LS	LG MV	N N	RV Pr	SP TY	WR	
VALLEY	Hamlin Hot Creek Jakes	Kobeh Lake Little Smokv	Long Monitor Muleshoe	Newark Penoyer	Railroad Raiston	Spring Stone Cabin	White River	TOTAL SHELTERS TOTAL VALLEYS TOTAL ASCS
NUMBER OF SHELTERS USED	161			,	189 264 70	106	68 98	
ABBRE- VIATION	DW FS	SC	TL WA WW	AN BG	BS BV) i s	DF.	
VALLEY	Dugway Fish Springs Flat Pine	Sevier Desert Sevier Lake Spake	Tule Wah Wah Whirlwind	Antelope Big Sand Springs	Big Smoky Butte	cave Coal Delamar/Pahroc	Dry Lake Garden	



Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water â

Best 2300 shelters and 15 percent - Coyote MOB, Milford ASC, avoid all MOAs and Restricted Areas 6

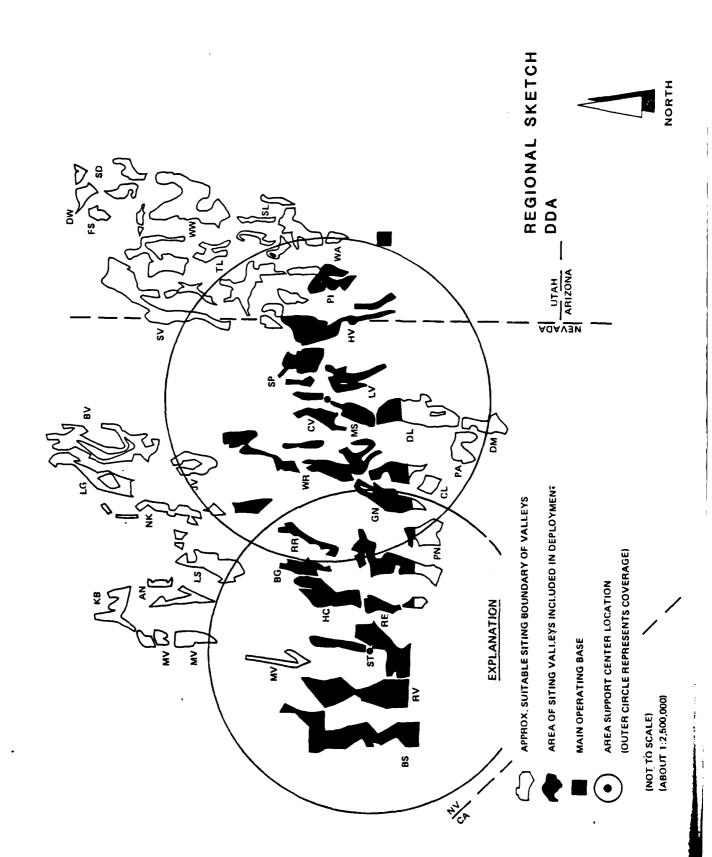
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	MO		Hamlin	НУ	252
Fish Springs Flat	FS		Hot Creek	HC	148
Pine	PI		Jakes	λC	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	ΓΛ	141
Snake	SV		Little Smoky	FS	
Tule	TL		Long	DI.	
Wah Wah	WA		Monitor	MΩ	
Whirlwind	MM		Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	36
Big Smcky	BS	284	Railroad	RR	156
Butta	BV		Ralston	RV	384
Cave	C	105	Reveille	RE	88
Coal	CL	159	Spring	SP	102
Delamar/Pahroc	ΩM		Stone Cabin	ST	238
Dry Lake	DĽ	134	White River	WR	190
Garden	GN	129			
			TOTAL SHELTERS		2650
			TOTAL VALLEYS		16
			TOTAL ASCS		~



Horizontal shelters - 23:1 clustered using Ertec's 15 May numbers E)

Best 2300 shelters - Coyote MOB, Milford ASC, avoid all MOAs and Restricted Areas 6

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DW		Hamlin	HV	161
Fish Springs Flat	FS		Hot Creek	HC	138
Pine .	PI	69	Jakes	ΔΛ	
Sevier Desert	SD		Kobeh	КВ	
Sevier Lake	$S\Gamma$		Lake	ΓΛ	161
Snake	SV		Little Smoky	LS	
Tule	TL		Long	ĽĠ	
Wah Wah	WA		Monitor	MV	
Whirlwind	WM		Muleshoe	MS	69
Antelope	AN		Newark	NK	
Biq Sand Springs	BG	69	Penoyer	PN	23
Big Smoky	BS	230	Railroad	RR	276
Butte	BV		Ralston	RV	207
Cave	CV	69	Reveille	RE	69
Coal	CF	69	Spring	SP	92
Delamar/Pahroc	ΜO		Stone Cabin	$_{ m ST}$	184
Dry Lake	DI	69	White River	WR	276
Garden	N.	92			
			TOTAL SHELTERS		2323
			TOTAL VALLEYS		8-
			TOTAL ASCS		2



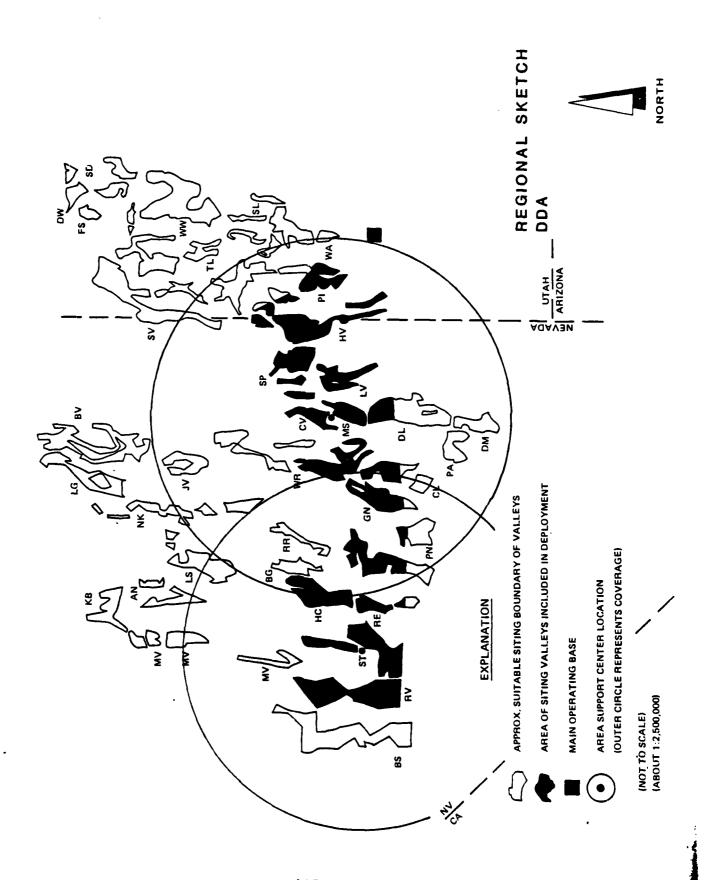
Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water A)

Best 2300 shelters and 15 percent - Milford MOB, avoid all MOAs and Restricted Areas

10)

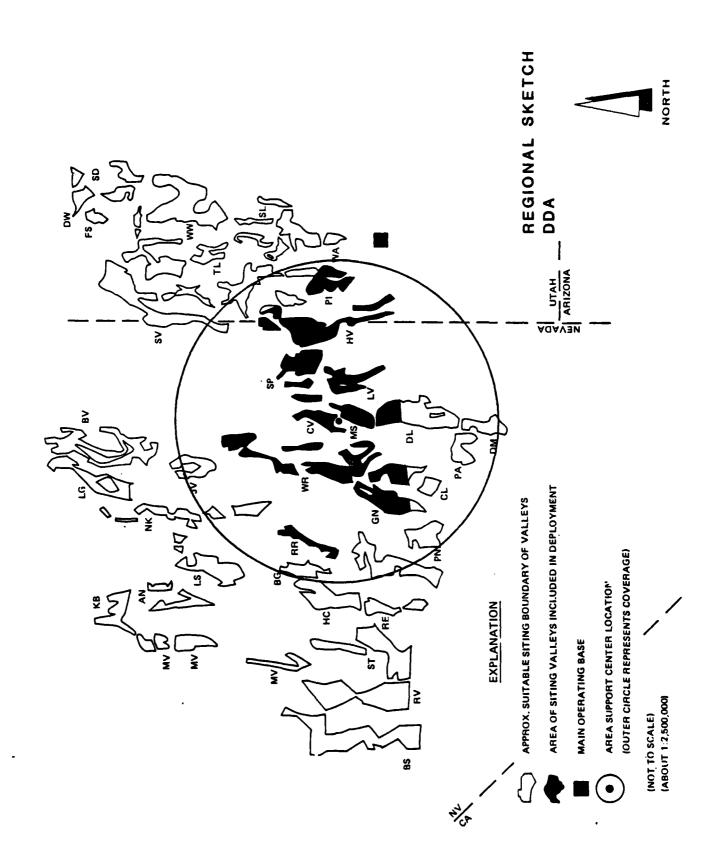
NUMBER OF SHELTERS USED	300	167			191				81		35	173	312	73	121	331	265	
ABBRE- VIATION	НΛ	HC	λſ	KB	ΓΛ	ST	F.G	MΛ	MS	NK	PN	RR	RV	RE	SP	ST	WR	
VALLEY	Hamlin	Hot Creek	Jakes	Kobeh	Lake	Little Smoky	Long	Monitor	Muleshoe	Newark	Penoyer	Railroad	Ralston	Reveille	Spring	Stone Cabin	White River	
NUMBER OF SHELTERS USED			166			26								79	115		95	110
ABBRE- VIATION							TL	WA	MM	AN	BG	BS	BV	CV	CL	ΜΩ	D[S
VALLEY	Dugway	Fish Springs Flat	Pine	Sevier Desert	Sevier Lake	Snake	Tule	Wah Wah	Whirlwind	Antelope	Big Sand Springs	Big Smoky	Butte	Cave	Coal	Delamar/Pahroc	Dry Lake	Garden

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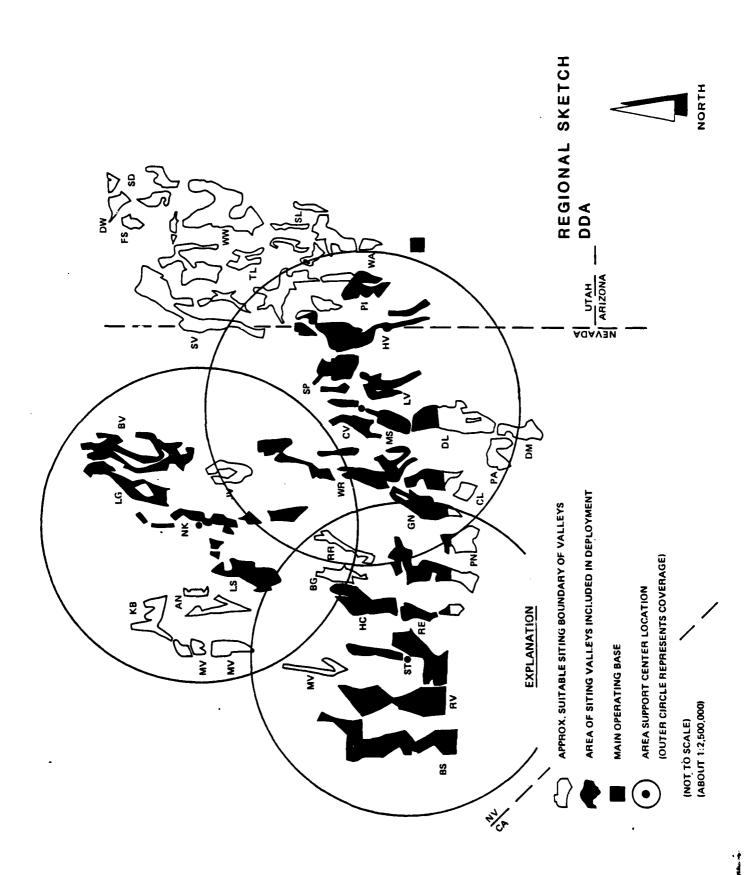
Best 2300 shelters and 15 percent - Milford MOB, avoid all MOAs and Restricted Areas Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water 10) B)

>1	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Ω	Jugway	DW		Hamlin	Н	450
Œ	ish Springs Flat	FS		Hot Creek	HC	
д	Pine	PI	249	Jakes	ΔC	
S	Sevier Desert	SD		Kobeh	KB	
S	sevier Lake	SL		Lake	ΓΛ	286
S	Snake	SV		Little Smoky	ĽS	
H	Tule	TL		Long	91	
3	Jah Wah	WA		Monitor	MΛ	
3	Whirlwind	WM		Muleshoe	MS	122
V	Antelope	AN		Newark	NK	
8	3ig Sand Springs	BG		Penoyer	PN	
Ø	ig Smoky	BS		Railroad	RR	200
æ	Butte	ΒV		Ralston	RV	
Ç	Cave	CV	118	Reveille	RE	
S	Coal	CF	172	Spring	SP	182
Ω	Delamar/Pahroc	ΜQ		Stone Cabin	ST	
Ω	Dry Lake	DF	142	White River	WR	597
IJ	Garden	GN	165			
				TOTAL SHELTERS		2683
				TOTAL VALLEYS		=
				TOTAL ACTO		_



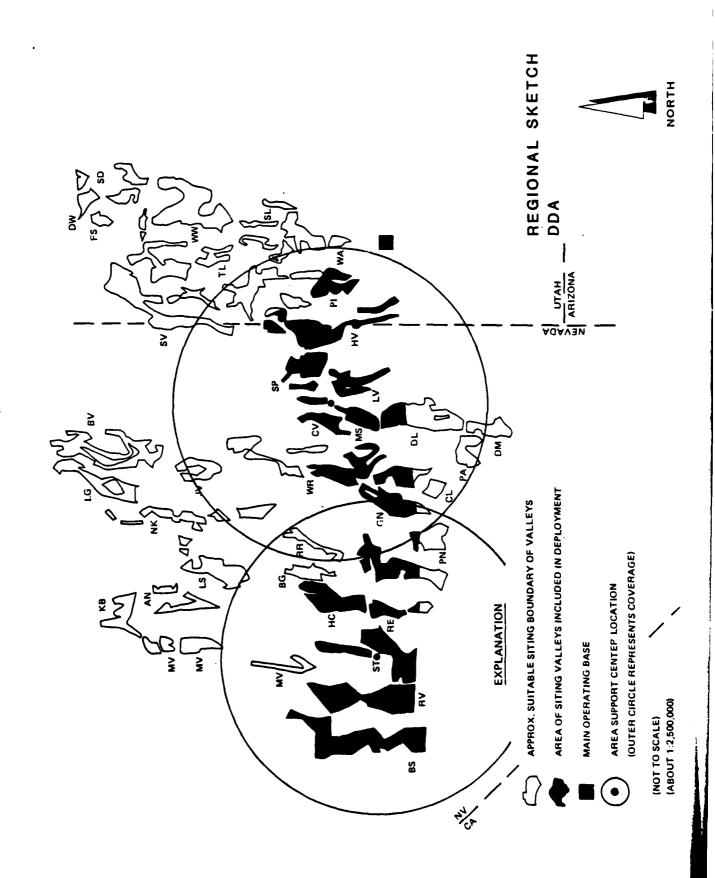
Best 2300 shelters and 15 percent - Milford MOB, avoid all MOAs and Restricted Areas Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water 10) ၁

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DW		Hamlin	НΛ	168
Fish Springs Flat	FS		Hot Creek	НС	66
Pine	ΡΙ	161	Jakes	ΔΩ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	$S\Gamma$		Lake	ΓΛ	94
Snake	SV		Little Smoky	SI	137
Tule	TL		Long	57	80
Wah Wah	WA		Monitor	ΔW	
Whirlwind	WW		Muleshoe	MS	69
Antelope	AN		Newark	NK	96
Big Sand Springs	BG		Penoyer	PN	24
Big Smoky	BS	189	Railroad	RR	213
Butte	BV	264	Ralston	RV	256
Cave	CV	70	Reveille	RE	59
Coal	CL	106	Spring	SP	68
Delamar/Pahroc	ΜQ		Stone Cabin	\mathbf{ST}	159
Dry Lake	DĽ	68	White River	WR	191
Garden	CN	98			
			TOTAL SHELTERS		2678
					21
			TOTAL ASCS		က



Best 2300 shelters and 15 percent - Milford MOB, avoid all MOAs and Restricted Areas Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water 10) â

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	ΜΩ		Hamlin	НΛ	252
Fish Springs Flat	FS		Hot Creek	HC	148
Pine	PI	242	Jakes	ß	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	$\mathbf{S}\mathbf{\Gamma}$		Lake	ΓΛ	141
Snake	SV		Little Smoky	LS	
Tule	TL		Long	91	
Wah Wah	WA		Monitor	ΔM	
Whirlwind	ΜM		Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	Nd	36
Big Smoky	BS	284	Railroad	RR	156
Butte	ВV		Ralston	RV	384
Cave	C	105	Reveille	RE	88
Coal	CL	159	Spring	SP	102
Delamar/Pahroc	DM		Stone Cabin	ST	238
Dry Lake	ני	134	White River	WR	190
Garden	CN	129			
			TOTAL SHELTERS		2892
					17
			TOTAL ASCS		2



Horizontal shelters - 23:1 clustered using Ertec's 15 May numbers <u>은</u>

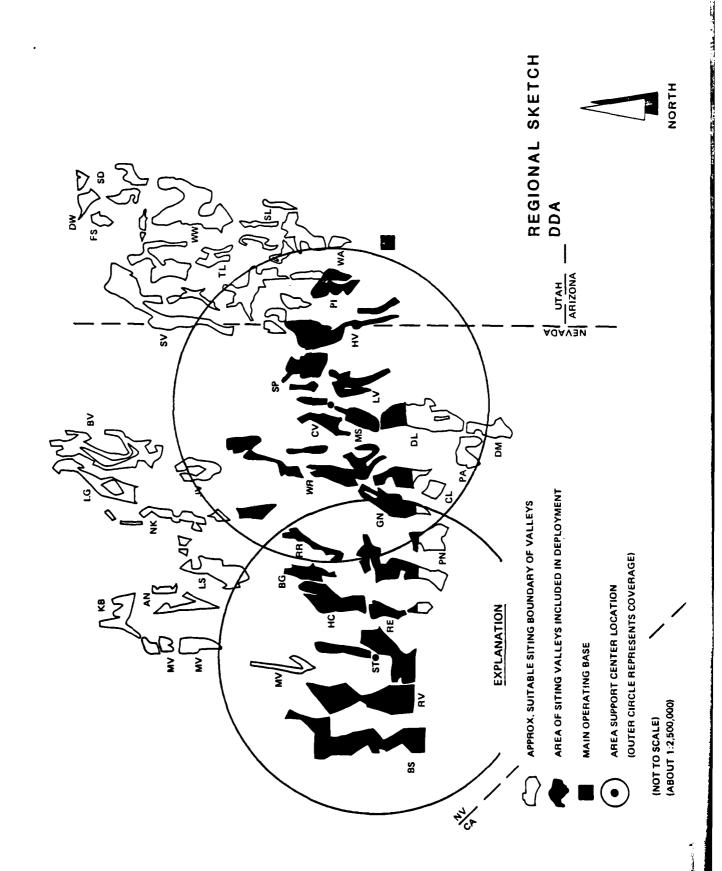
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Best 2300 shelters - Milford MOB, avoid all MOAs and Restricted Areas

10)

SHELTERS USED NUMBER OF 18 161 138 161 23 276 207 69 92 184 276 2323 69 VIATION ABBRE-TOTAL SHELTERS TOTAL VALLEYS Little Smoky Stone Cabin White River Hot Creek Railroad Reveille Muleshoe Ralston Penoyer Monitor Hamlin Newark Spring VALLEY Jakes Kobeh Lake Long SHELTERS USED NUMBER OF 69 230 69 69 69 ABBRE-VIATION SD \mathbf{SL} Fish Springs Flat Antelope Big Sand Springs Delamar/Pahroc Sevier Desert Sevier Lake Whirlwind Big Smoky Dry Lake Wah Wah Dugway VALLEY Butte Snake Tule Pine Cave Coal

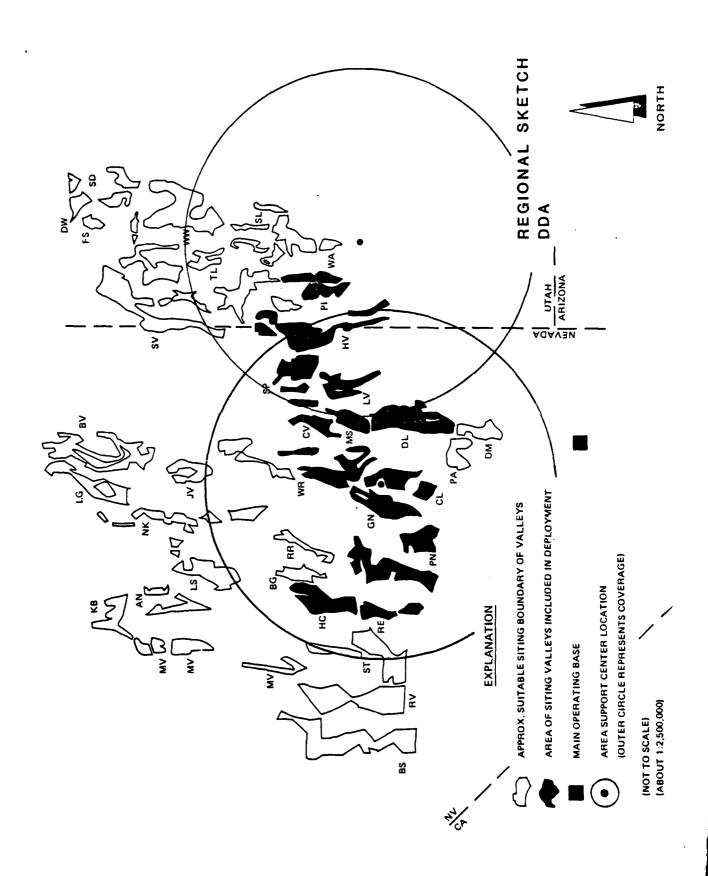
TOTAL ASCS



Best 2300 shelters and 15 percent - Coyote MOB, Milford ASC, avoid Delamar/Pahroc valleys Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water 11) A

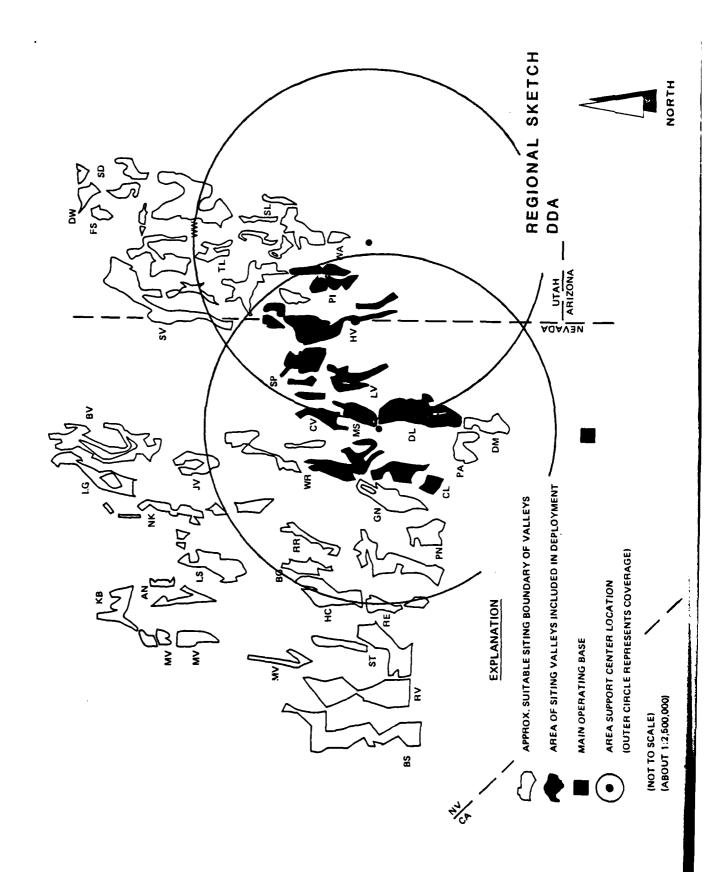
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
	MQ		Hamlin	ИΛ	333
Fish Springs Flat	FS		Hot Creek	HC	167
;	PI	249	Jakes	JV	
Sevier Desert	SD		Kobeh	КВ	
Lake	$\mathbf{S}\mathbf{\Gamma}$		Lake	ΓΛ	191
Snake	SV		Little Smoky	LS	
	TL		Long	ГG	
Th.	WA		Monitor	MΛ	
'ind	WW		Muleshoe	WS	81
be	AN		Newark	NK	
ind Springs	BG		Penoyer	PN	212
oky	BS		Railroad	RR	273
	BV		Ralston	RV	
	C	79	Reveille	RE	91
	CL	219	Spring	$_{ m SP}$	121
Delamar/Pahroc	ΩW		Stone Cabin	\mathbf{ST}	
Dry Lake	DF	284	White River	WR	265
Garden	BN	161			

2726 14 2



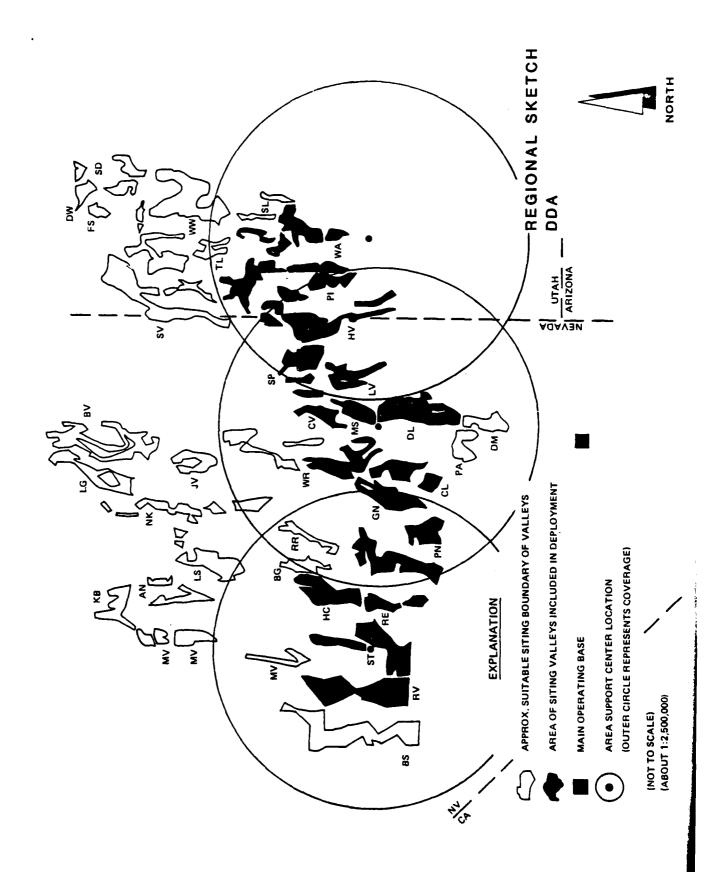
Best 2300 shelters and 15 percent - Coyote MOB, Milford ASC, avoid Delamar/Pahroc valleys Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water 11) B)

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway Fish Springs Flat	DW FS		Hamlin Hot Creek	HV	200
Pine Sevier Desert		374	Jakes	75	
Sevier Lake			Lake	rb LV	286
Snake			Little Smoky	LS))
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	118	Reveille	RE	
Coal	CF	328	Spring	SP	182
Delamar/Pahroc	ΜΩ		Stone Cabin	ST	
Dry Lake	DF	426	White River	WR	398
Garden	ВN				
			TOTAL SHELTERS		2734
					6
			TOTAL ASCS		2



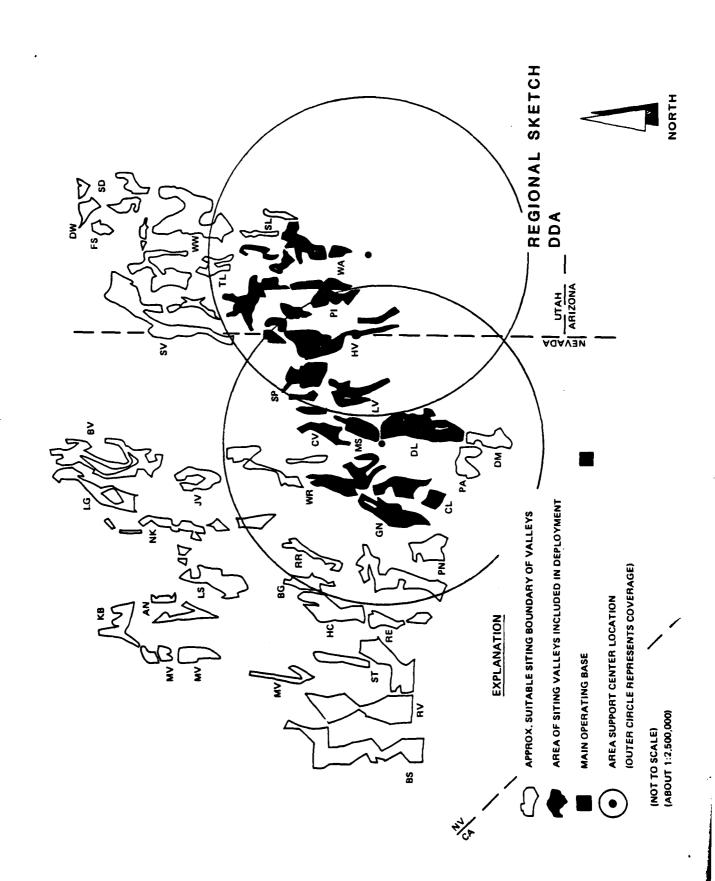
Best 2300 shelters and 15 percent - Coyote MOB, Milford ASC, avoid Delamar/Pahroc valleys Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water 11) ပ

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DW		Hamlin	HΛ	186
Fish Springs Flat	FS		Hot Creek	HC	66
Pine	ΡΙ	242	Jakes	JV	•
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	$\mathbf{S}\mathbf{\Gamma}$		Lake	ΓΛ	94
Snake	SV	148	Little Smoky	LS	,
Tule	TL	40	Long	LG DI	
Wah Wah	WA	175	Monitor	MV	
Whirlwind	MM		Muleshoe	WS	69
Antelope	AN		Newark	NK	•
Big Sand Springs	BG		Penoyer	PN	146
Big Smoky	BS		Railroad	RR	164
Butte	BV		Ralston	RV	256
Cave	CV	70	Reveille	RE	74
Coal	CL	201	Spring	SP	89
Delamar/Pahroc	ΨΩ		Stone Cabin	\mathbf{ST}	159
Dry Lake	DL	267	White River	WR	127
Garden	GN	126			
					,
			TOTAL SHELTERS TOTAL VALLEYS		2711
			TOTAL ASCS		i m



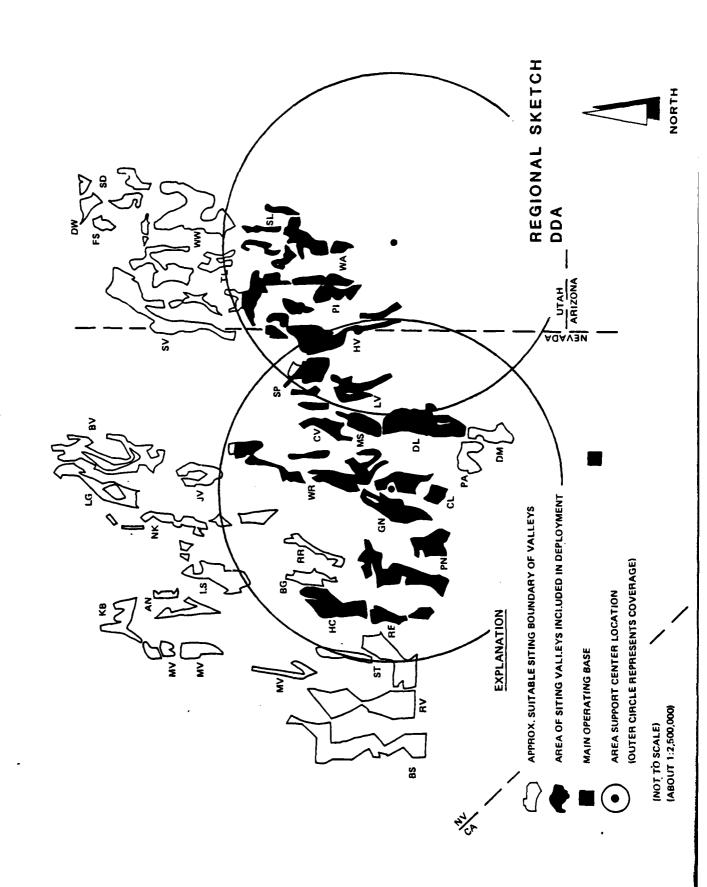
Best 2300 shelters and 15 percent - Coyote MOB, Milford ASC, avoid Delamar/Pahroc valleys Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water 11) â

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DΨ		Hamlin	HV	279
Fish Springs Flat	FS		Hot Creek	HC	
Pine	Ιd	363	Jakes	JΛ	
Sevier Desert	SD		Kobeh	КВ	
Sevier Lake	$S\Gamma$		Lake	ΓΛ	141
Snake	SV	222	Little Smoky	LS	
Tule	TL	09	Long	57	
Wah Wah	WA	263	Monitor	MΛ	
Whirlwind	WM		Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Biq Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	C	105	Reveille	RE	
Coal	CF	302	Spring	SP	102
Delamar/Pahroc	ΨΩ		Stone Cabin	ST	
Dry Lake	DL	400	White River	WR	190
Garden	QN	189			



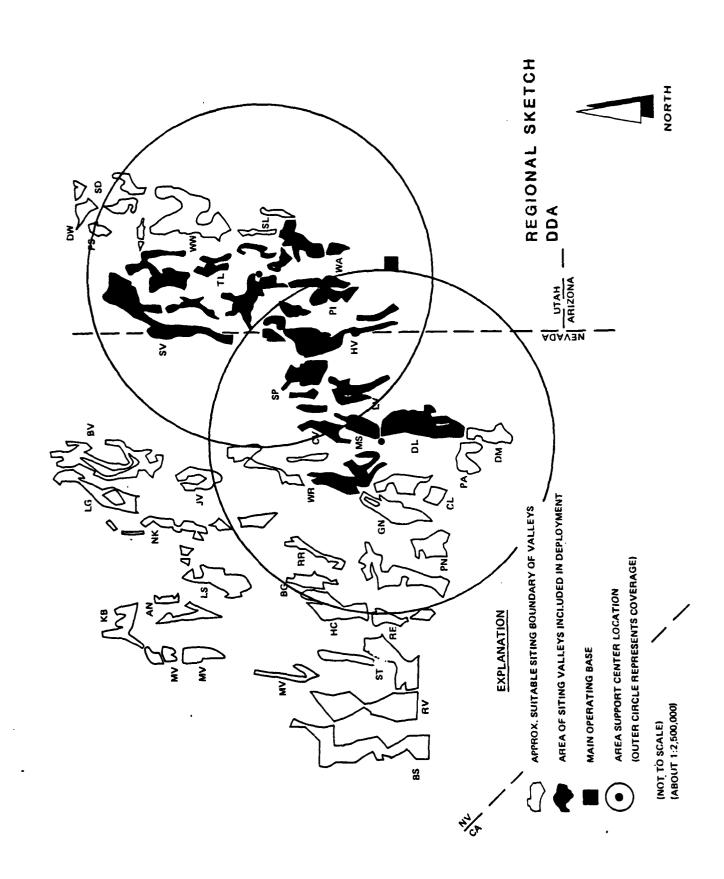
Best 2300 shelters - Coyote MOB, Milford ASC, avoid Delamar/Pahroc valleys Horizontal shelters - 23:1 clustered using Ertec's 15 May numbers 11) (E

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway Fish Springs Flat	DW FS		Hamlin Hot Creek	HV	230
Pine	PI	115	Jakes	λC	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL	23	Lake	ΓΛ	161
Snake	SV	92	Little Smoky	LS.	
Tule	TĽ	46	Long	97	
Wah Wah	WA	115	Monitor	MV	
Whirlwind	MM	23	Muleshoe	WS	69
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	115
Big Smoky	BS		Railroad	RR	184
Butte	BV		Ralston	RV	
Cave	S	69	Reveille	RE	69
Coal	CL	138	Spring	SP	92
Delamar/Pahroc	ΜQ		Stone Cabin	ST	
Dry Lake	DĽ	230	White River	WR	253
Garden	ВN	138			
			TOTAL SHELTERS		2300
					19
			TOTAL ASCS		2



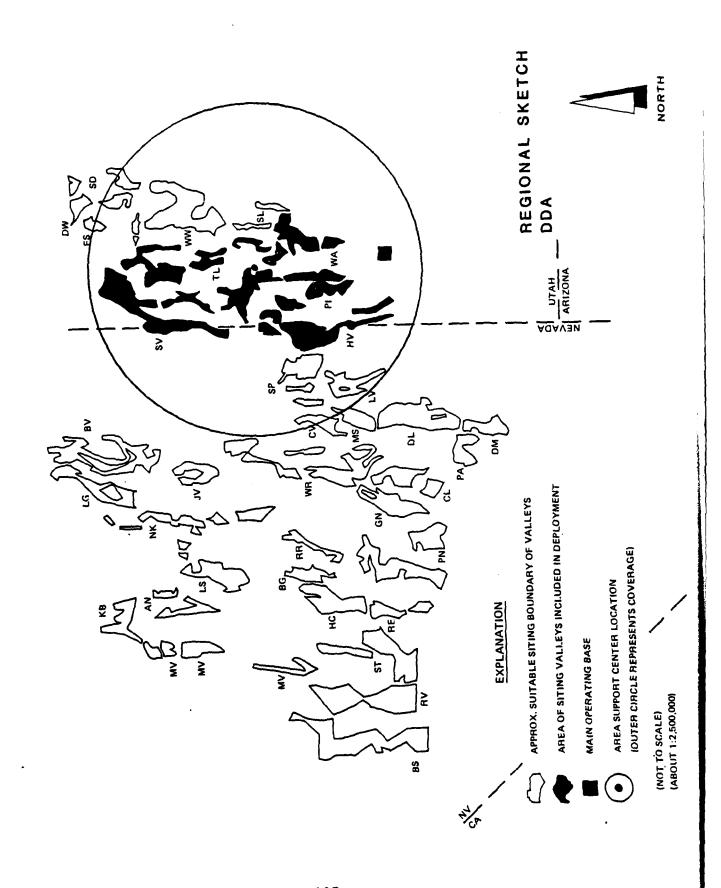
Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water Best 2300 shelters and 15 percent - Milford MOB, avoid Delamar/Pahroc valleys 12) ¥

NUMBER OF SHELTERS USED	333	191		81		121	265	2833 11 2
ABBRE-	HC HC	KB C	LS LG	M.S.	PN RR V	SP ST	WR	
VALLEY	Hamlin Hot Creek	Jakes Kobeh Lake	Little Smoky Long	Muleshoe Newark	Penoyer Railroad Ralston	Reveille Spring Stone Cabin	White River	TOTAL SHELTERS TOTAL VALLEYS TOTAL ASCS
NUMBER OF SHELTERS USED	ć	243	650 367 213	7		79	284	
ABBRE-	DW FS	PI SD SL	SV	AW A	BG BS BV	S C C	G DE	
VALLEY	Dugwe/ Fish Springs Flat	Pine Sevier Desert Sevier Lake	Snake Tule Hank Hank	wan wan Whirlwind Antelope	Big Sand Springs Big Smoky Butte	Cave Coal Dolamar/Pahroc	Dry Lake Garden	



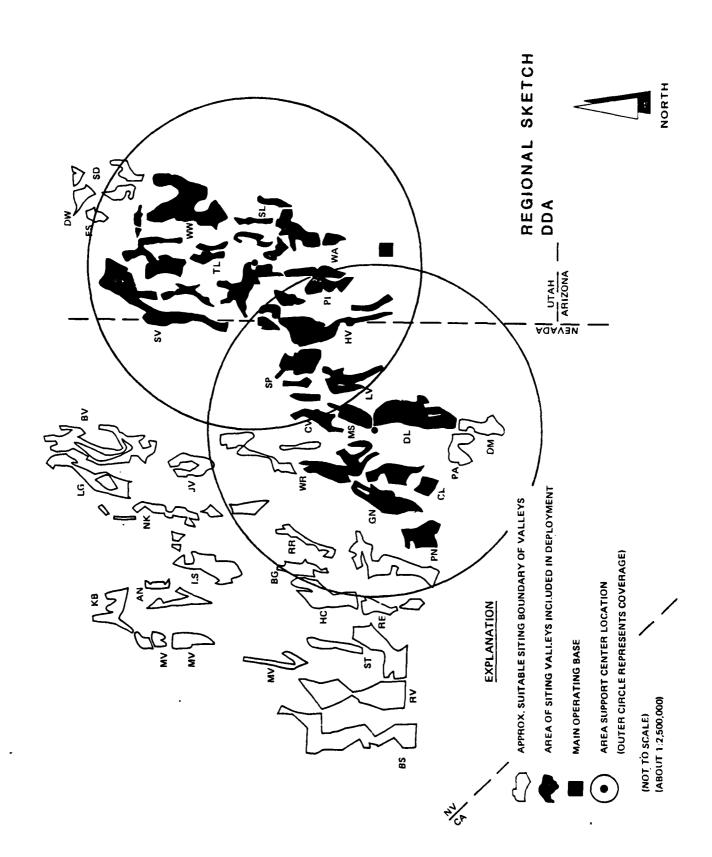
Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water Best 2300 shelters and 15 percent - Milford MOB, avoid Delamar/Pahroc valleys 12) B)

CEL TOTAL STREET



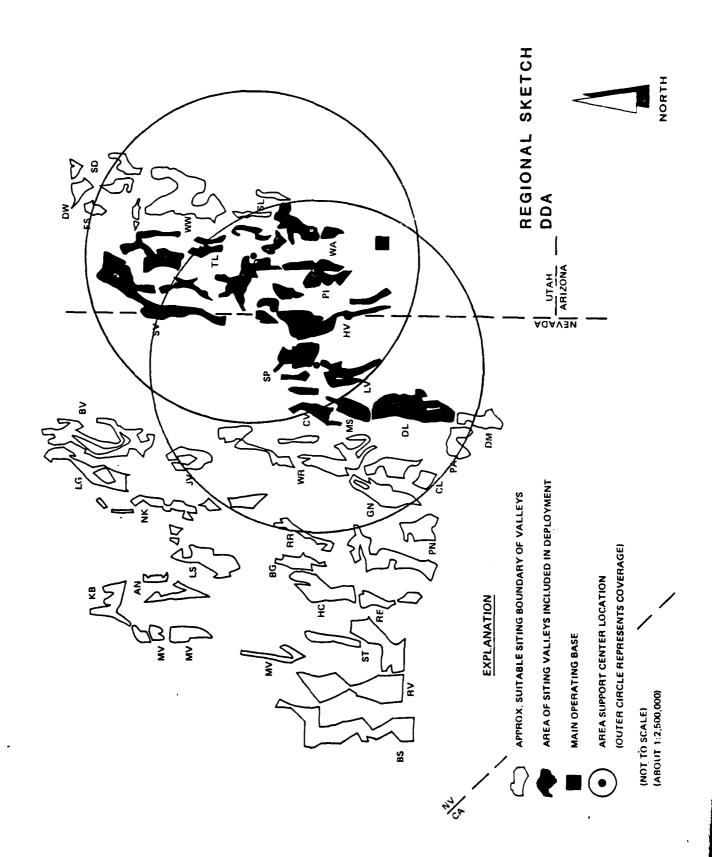
Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water Best 2300 shelters and 15 percent - Milford MOB, avoid Delamar/Pahroc valleys 12) (၁

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DW		Hamlin	НУ	186
Fish Springs Flat	SH	23	Hot Creek	HC	
Pine	PI	242	Jakes	λC	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL	57	Lake	ΓΛ	94
Snake	SV	390	Little Smoky	FS	
Tule	TL	198	Long	1.G	
Wah Wah	WA	175	Monitor	MΛ	
Whirlwind	MM	215	Muleshoe	WS	69
Antelope	AN		Newark	. NK	
Big Sand Springs	BG		Penoyer	Nd	146
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CA	70	Reveille	RE	
Coal	CL	201	Spring	SP	89
Delamar/Pahroc	ωΩ		Stone Cabin	ST	
Dry Lake	DĽ	267	White River	WR	127
Garden	GN	126			
			Submind trace		7554
			TOTAL VALLEYS		71
			TOTAL ASCS		2



Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water Best 2300 shelters and 15 percent - Milford MOB, avoid Delamar/Pahroc valleys 12) Q

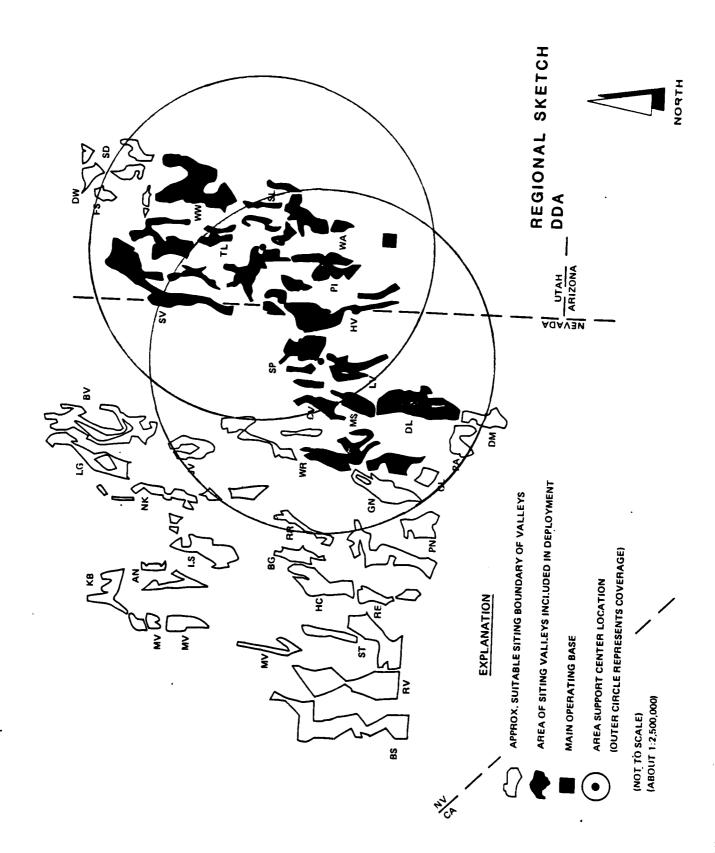
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
мау	DΨ		Hamlin	HV	279
h Springs Flat	FS		Hot Creek	HC	
Pine	PI	363	Jakes	JΛ	
Sevier Desert	SD		Kobeh	KB	
ier Lake	SL		Lake	ΓΛ	141
Snake	SV	585	Little Smoky	rs	
Tule	TL	297	Long	91 _.	
Wah	WA	263	Monitor	MV	
rlwind	MM		Muleshoe	MS	104
elope	AN		Newark	NK	
Sand Springs	BG		Penoyer	PN	
Smoky	BS		Railroad	RR	
te	BV		Ralston	RV	
Cave	CQ	105	Reveille	RE	
Coal	CF		Spring	SP	102
Delamar/Pahroc	ΜΩ		Stone Cabin	\mathbf{ST}	
Dry Lake	DF	400	White River	WR	
Garden	GN				
			TOTAL SHELTERS		2639
			TOTAL VALLEYS		10
		ŧ	TOTAL ASCS		7



Horizontal shelters - 23:1 clustered using Ertec's 15 May numbers E)

Best 2300 shelters - Milford MOB, avoid Delamar/Pahroc valleys 12)

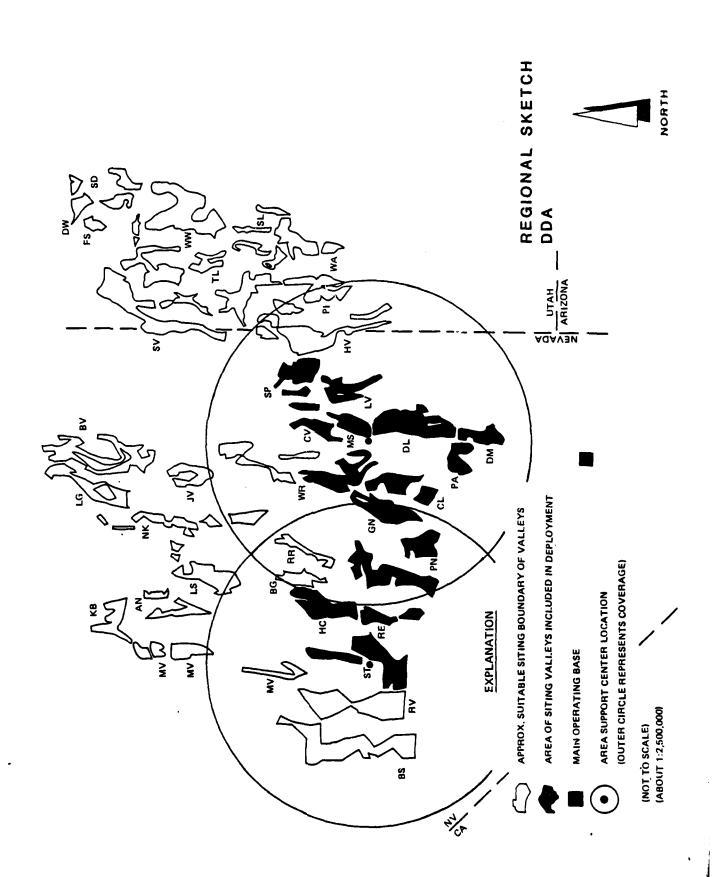
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	ΜQ		Hamlin	HV	230
Fish Springs Flat	FS		Hot Creek	HC	
Pine :	Ιď	115	Jakes	JΛ	
Sevier Desert	SD		Kobeh	КВ	
Sevier Lake	SL	23	Lake	ΓΛ	161
Snake	SV	437	Little Smoky	LS	
Tule	TL	230	Long	ĽG	
Wah Wah	WA	115	Monitor	MV	
Whirlwind	MM	276	Muleshoe	MS	69
Antelope	AN		Newark	NX	
Big Sand Springs	BG		Penoyer	PN	
Biq Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CA	69	Reveille	RE	
Coal	CL	92	Spring	SP	92
Delamar/Pahroc	ΨΩ		Stone Cabin	\mathbf{ST}	
Dry Lake	Π	230	White River	WR	161
Garden	GN				
			TOTAL SHELTERS		2300
			TOTAL VALLEYS		14
			TOTAL ASCS		2



Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water Best 2300 shelters and 15 percent - Coyote MOB, Nevada only 13-7) A)

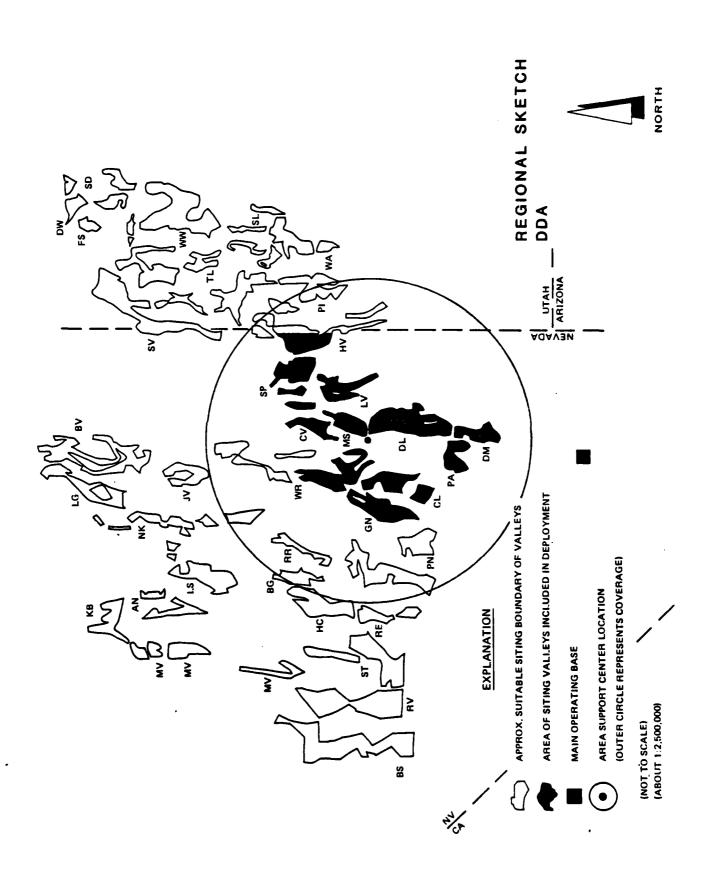
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DW		Hamlin	HV	
Fish Springs Flat	FS		Hot Creek	HC	167
Pine	PI		Jakes	λſ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	ľΛ	191
Snake	SV		Little Smoky	ΓS	
Tule	TL		Long	LG LG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WM		Muleshoe	WS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	212
Big Smoky	BS		Railroad	RR	273
Butte	BV		Ralston	RV	
Cave	CQ	79	Reveille	RE	91
Coal	CL	219	Spring	SP	121
Delamar/Pahroc	ΜΩ	170	Stone Cabin	ST	331
Dry Lake	DĽ	284	White River	WR	265
Garden	GN	161			
			TOTAL SHELTERS		2645

TOTAL VALLEYS TOTAL ASCS



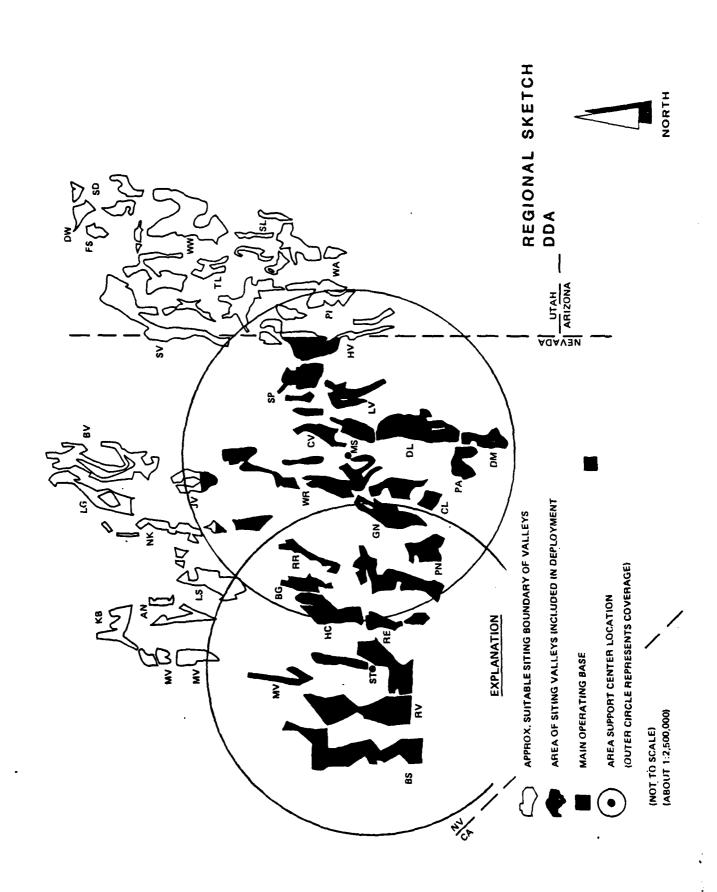
Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water Best 2300 shelters and 15 percent - Coyote MOB, Nevada only 13-7) B)

VALLEY	ABBRE-	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DW		Hamlin	НИ	312
Fish Springs Flat	FS		Hot Creek	HC	
Pine	ΡΙ		Jakes	JV	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	ΓΛ	286
Snake	SV		Little Smoky	LS	
Tule	TĽ		Long	ĽĠ	
Wah Wah	MA		Monitor	MΛ	
Whirlwind	MM		Muleshoe	MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Pencyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	C C	118	Reveille	RE	
Coal	CF	328	Spng	SP	182
Delamar/Pahroc	ΨΩ	255	Stone Cabin	\mathbf{ST}	
Dry Lake	DF	426	White River	WR	398
Garden	В	242			
					0
			TOTAL SAELTERS		6997
			TOTAL ASCS		ן דם
					ı



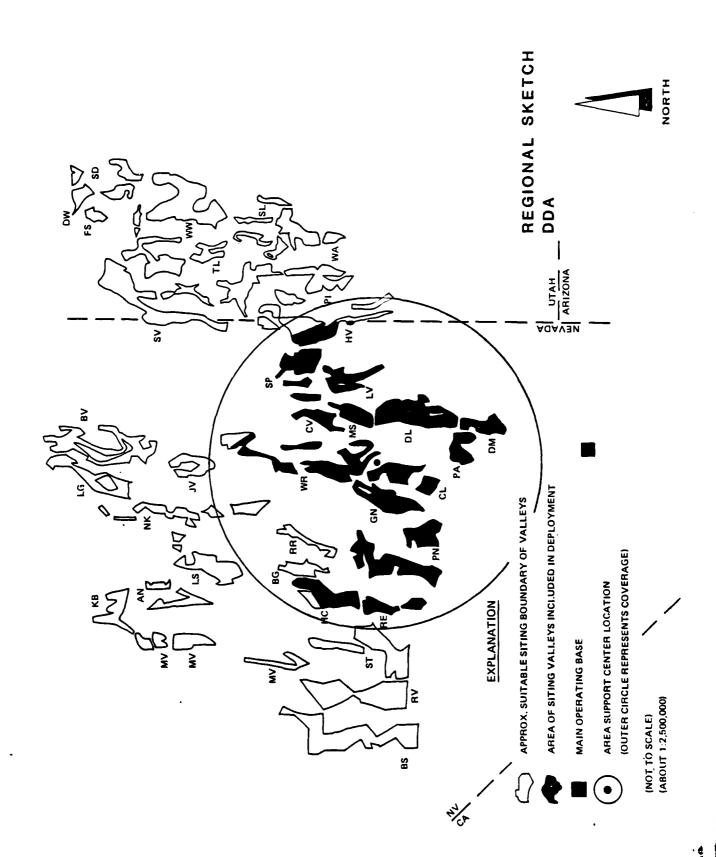
Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water Best 2300 shelters and 15 percent - Coyote MOB, Nevada only 13-7) ວ

NUMBER OF SHELTERS USED	116 99 33 146 28 263 256 159 191	50 20 20 20
ABBRE- VIATION	HV HV KB LC LC LG LG MN MN RR RR SP SP SP SP SP SP SP SP	
VALLEY	Hamlin Hot Creek Jakes Kobeh Lake Little Smoky Long Monitor Monitor Muleshoe Newark Penoyer Railroad Railroad Raiston Reveille Spring Stone Cabin White River	
NUMBER OF SHELTERS USED	57 189 70 201 138 267 126	
ABBRE- VIATION	FS SD SD SD SD WW WW WA WW WA WW CC CC CC CC CC CC CC CC CC CC CC CC	
VALLEY	Dugway Fish Springs Flat Pine Sevier Desert Sevier Lake Snake Tule Wah Wah Whirlwind Antelope Big Sand Springs Big Sand Springs Big Smoky Butte Cave Coal Delamar/Pahroc Dry Lake	



Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water Best 2300 shelters and 15 percent - Coyote MOB, Nevada only 13-7) â

	1 1			1 1 1	
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway			Hamlin	HV	139
Fish Springs Flat			Hot Creek	HC	123
Pine			Jakes	JV	
Sevier Desert			Kobeh	KB	
Sevier Lake	\mathbf{SL}		Lake	ΓΛ	141
Snake	SV		Little Smoky	ΓS	
Tule	TL		Long	ĽG	
Wah Wah	WA		Monitor	MV	
Whirlwind	MM		Muleshoe	WS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	219
Big Smoky	BS		Railroad	RR	246
Butte	BV		Ralston	RV	
Cave	CQ	105	Reveille	RE	111
Coal	CL	302	Spring	SP	102
Delamar/Pahroc	DW	207	Stone Cabin	ST	
Dry Lake	DL	400	White River	WR	271
Garden	N CIN	189			
			TOTAL SHELTERS		2659
			TOTAL VALLEYS		14



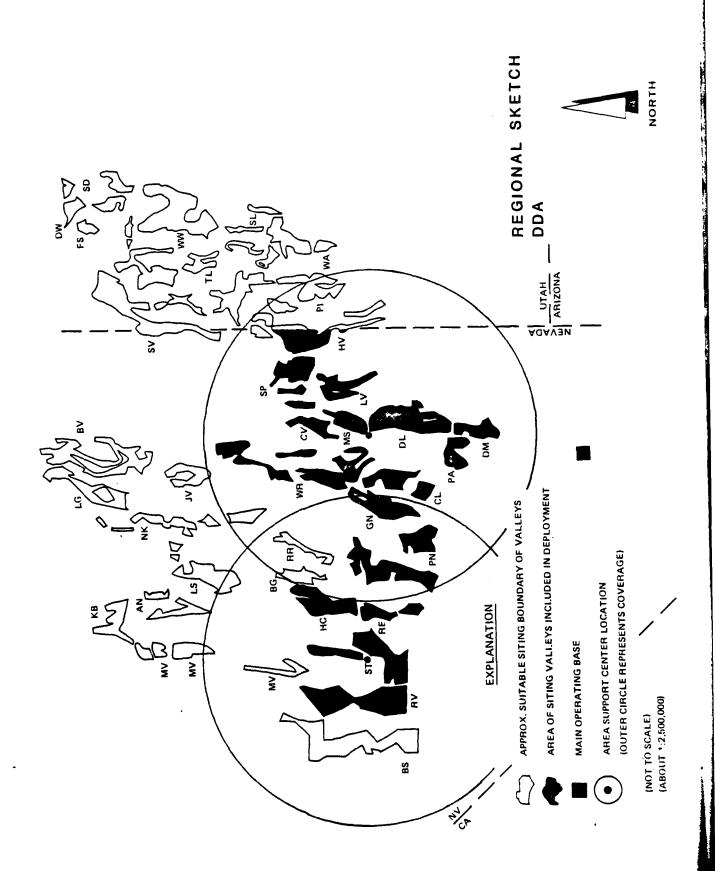
Horizontal shelters - 23:1 clustered using Ertec's 15 May numbers Ε)

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Best 2300 shelters - Coyote MOB, Nevada only 13-7)

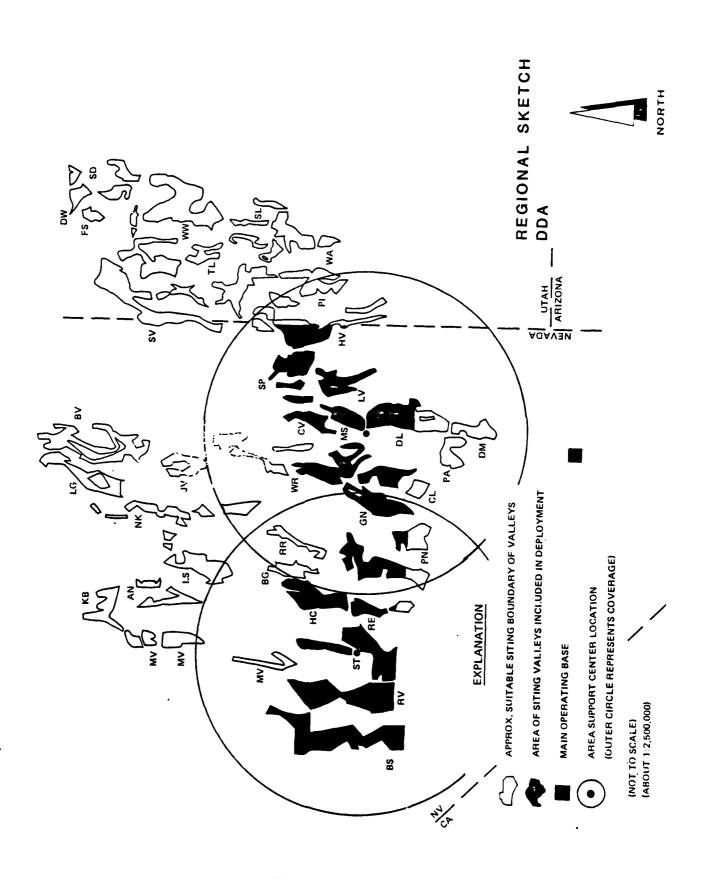
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DW		Hamlin	НV	138
Fish Springs Flat	FS		Hot Creek	HC	138
Pine	ΡΙ		Jakes	λſ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	ΓΛ	161
Snake	SV		Little Smoky	LS	
Tule	TL		Long	ĽG	
Wah Wah	WA		Monitor	₩	
Whirlwind	WM		Muleshoe	MS	69
Antelope	AN		Newark	NK	
Biq Sand Springs	BG		Penoyer	PN	115
Big Smoky	BS		Railroad	RR	184
Butte	BV		Ralston	RV	207
Cave	CV	69	Reveille	RE	69
Coal	CL	138	Spring	SP	92
Delamar/Pahroc	ΜΩ	138	Stone Cabin	ST	184
Dry Lake	DF	230	White River	WR	276
Garden	CN	138			
			TOTAL SHELTERS		2346
					16
			TOTAL ASCS		2

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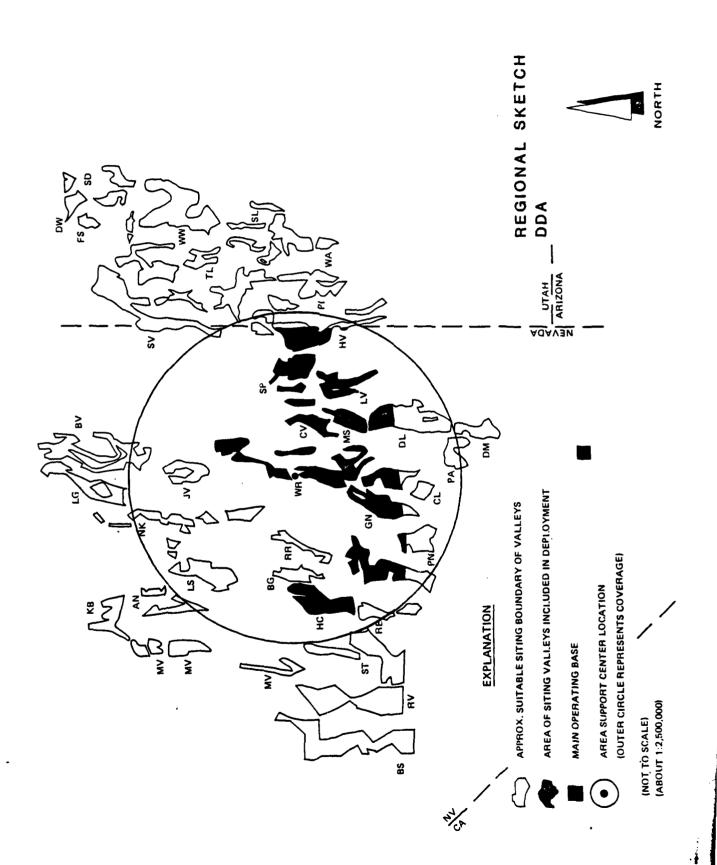
Best 2300 shelters and 15 percent - Covote MOB, avoid all MOAs and Restricted Areas, Nevada only Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water 13-9) A

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DΜ		Hamlin	НΛ	208
Fish Springs Flat	FS		Hot Creek	HC	167
Pine	PI		Jakes	λſ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	ľΛ	191
Snake	SV		Little Smoky	LS	
Tule	TL		Long	I.G	
Wah Wah	WA		Monitor	MΛ	
Whirlwind	WW		Muleshoe	MS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	35
Big Smoky	BS	430	Railroad	RR	173
Butte	BV		Ralston	RV	312
Cave	CA	7.0	Reveille	RE	73
Coal	CL	115	Spring	SP	121
Delamar/Pahroc	ΨΩ		Stone Cabin	ST	331
Dry Lake	DL DL	95	White River	WR	265
Garden	GN	110			
			TOTAL SHELTERS		2786
					16
					2



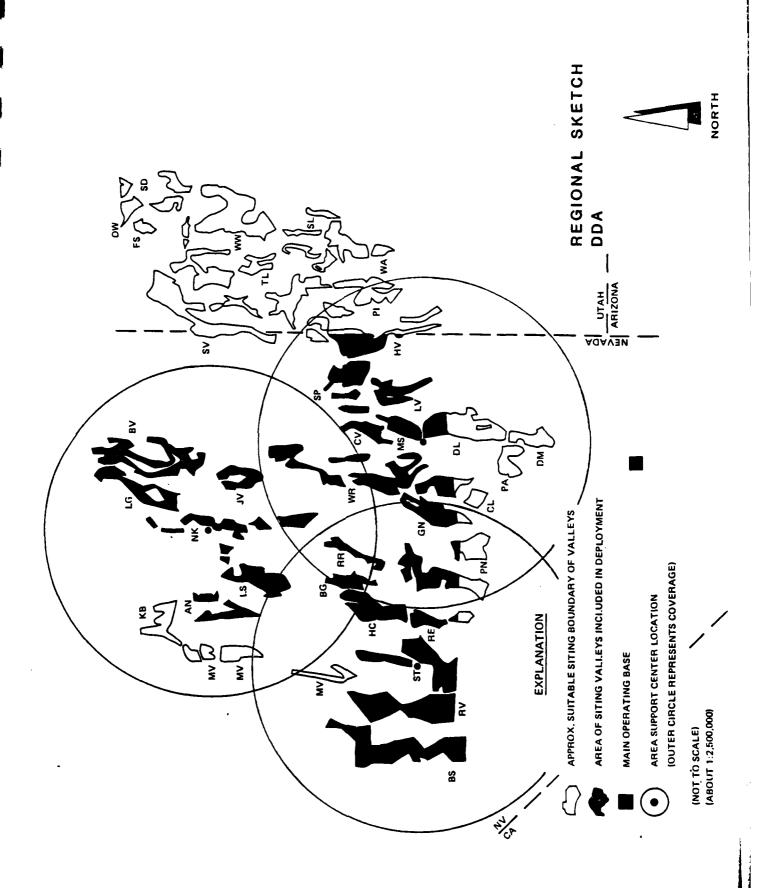
Best 2300 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas, Nevada only Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water 13-9) B)

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
	DW		Hamlin	HV	312
Fish Springs Flat	FS		Hot Creek	HC	225
	PI		Jakes	ΔC	
Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	ľΛ	286
	SV		Little Smoky	LS	
	TL		Long	51	
	WA		Monitor	MΛ	
Whirlwind	ΜM		Muleshoe	MS	122
e.	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	52
oky	BS		Railroad	RR	260
	BV		Ralston	RV	
	CA	118	Reveille	RE	
	CL	172	Spring	SP	182
r/Pahroc	ΩW		Stone Cabin	ST	
Dry Lake	Dľ	142	White River	WR	597
	CN	165			



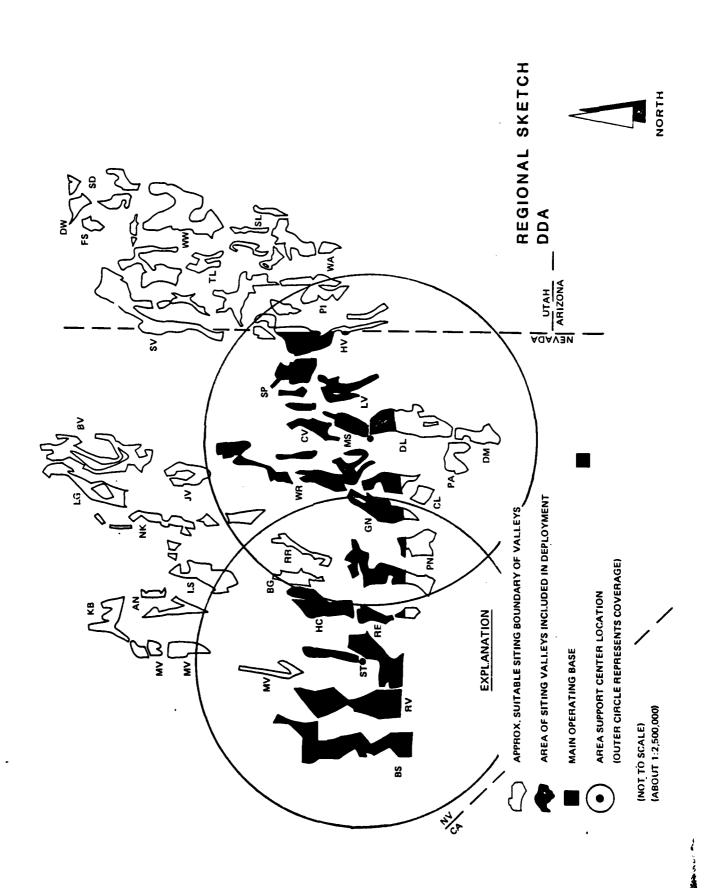
Best 2300 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas, Nevada only Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water 13-9) C

VALLEY	ABBRE-	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	MQ		Hamlin	НΛ	116
Fish Springs Flat	FS		Hot Creek	HC	66
Pine	ΡΙ		Jakes	ያ	83
Sevier Desert	SD		Kobeh	КВ	
Sevier Lake	SL		Lake	ľΛ	94
Snake	SV		Little Smoky	LS	137
Tule	TL		Long	51	80
Wah Wah	WA		Monitor	MΛ	
Whirlwind	WM		Muleshoe	WS	69
Antelope	AN	51	Newark	NK	96
Big Sand Springs	BG	57	Penoyer	PN	24
Big Smoky	BS	189	Railroad	RR	213
Butte	BV	264	Ralston	RV	256
Cave	C	70	Reveille	RE	29
Coal	CE	106	Spring	SP	89
Delamar/Pahroc	E C		Stone Cabin	ST	159
Dry Lake	DĽ	89	White River	WR	191
Garden	GN GN	98			
			TOTAL SHELTERS		2656
			TOTAL VALLEYS		23
			TOTAL ASCS		ĸ



D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water Best 2300 shelters and 15 percentpercent - Coyote MOB, avoid all MOAs and Restricted Areas, Nevada only 13-9)

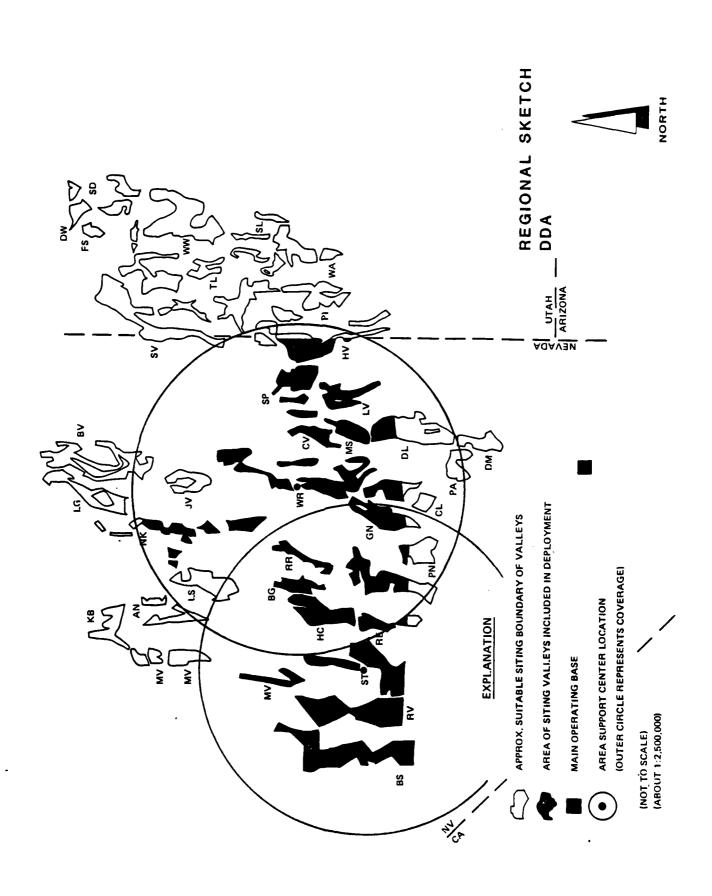
VALLEY	ABBRE-	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DW		Hamlin	НУ	174
Fish Springs Flat	FS		Hot Creek	HC	148
Pine	PI		Jakes	ξ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	\mathbf{SL}		Lake	ΓΛ	141
Snake	SV		Little Smoky	LS	
Tule	TL		Long	I.G	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	WS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	36
Big Smoky	BS	284	Railroad	RR	156
Butte	BV		Ralston	RV	384
Cave	CQ	105	Reveille	RE	88
Coal	CF	159	Spring	SP	102
Delamar/Pahroc	W		Stone Cabin	\mathbf{ST}	238
Dry Lake	DĽ	134	White River	WR	286
Garden	GN	129			
			TOTAL CHELIFERS		2668
					16
					2



Best 2300 shelters - Coyote MOB, avoid all MOAs and Restricted Areas, Nevada only Horizontal shelters - 23:1 clustered using Ertec's 15 May numbers 13-9) (E

NUMBER OF SHELTERS USED	138 138 161 161 23 230 207 46 92 184
ABBRE- VIATION	HV JV JV LLS LLS LLG MN MN PN RR RR RR SP SP SP SP SP SP SP SP SP SP SP SP SP
VALLEY	Hamlin Hot Creek Jakes Kobeh Lake Little Smoky Long Monitor Muleshoe Newark Pencyer Railroad Ralston Reveille Spring Stone Cabin
NUMBER OF SHELTERS USED	69 230 69 69 92
ABBRE- VIATION	PW FS SL SL SL SV WW AN BG CV CV CL DM
VALLEY	Dugway Fish Springs Flat Pine Sevier Desert Sevier Lake Snake Tule Wah Wah Whirlwind Antelope Big Sand Springs Big Smoky Butte Cave Coal Delamar/Pahroc Dry Lake Garden

2300 19 2

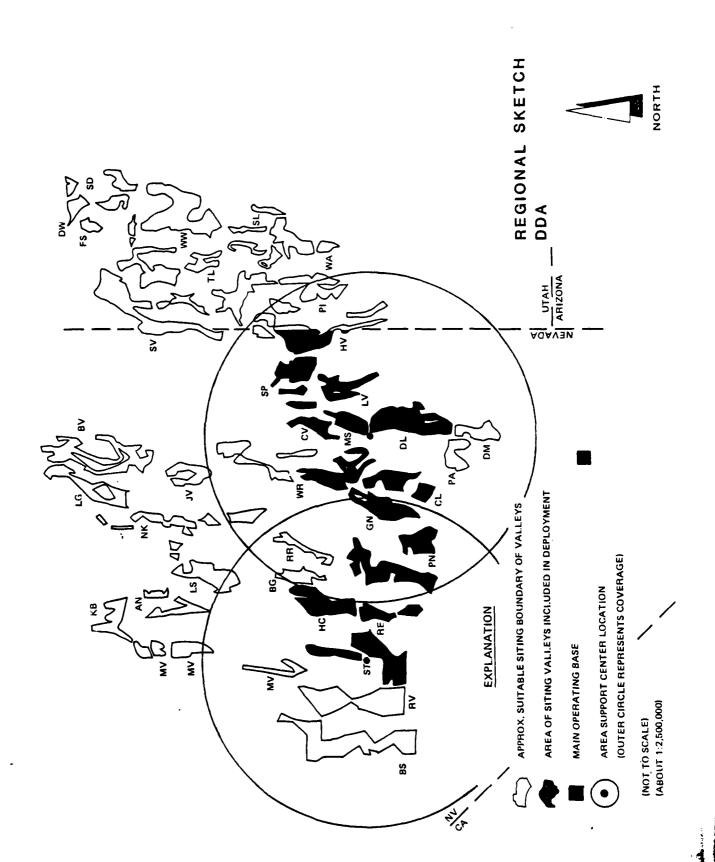


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Best 2300 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys, Nevada Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water 13-11) A)

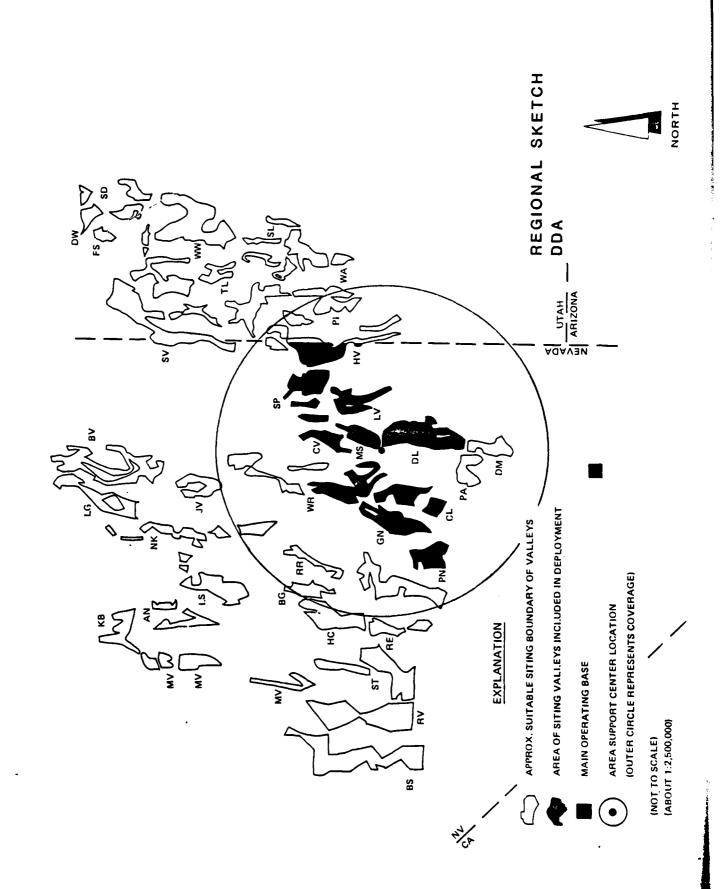
NUMBER OF SHELTERS USED	208 167 191 81 212 273 91 121 331	265
ABBRE- VIATION	HV JV LV LG LG MV MV NK NK RE RV SP SP ST	WR
VALLEY	Hamlin Hot Creek Jakes Kobeh Lake Little Smoky Long Monitor Muleshoe Newark Penoyer Railroad Railston Reveille Spring	White River
NUMBER OF SHELTERS USED	79 219	28 4 161
ABBRE- VIATION	PS SL SSL WA WW WA BG BS CC CC CC	DE
VALLEY	Dugway Fish Springs Flat Pine Sevier Desert Sevier Lake Snake Tule Wah Wah Whirlwind Antelope Big Sand Springs Big Sand Springs Cave Cave	Dry Lake Garden

2683 14 2



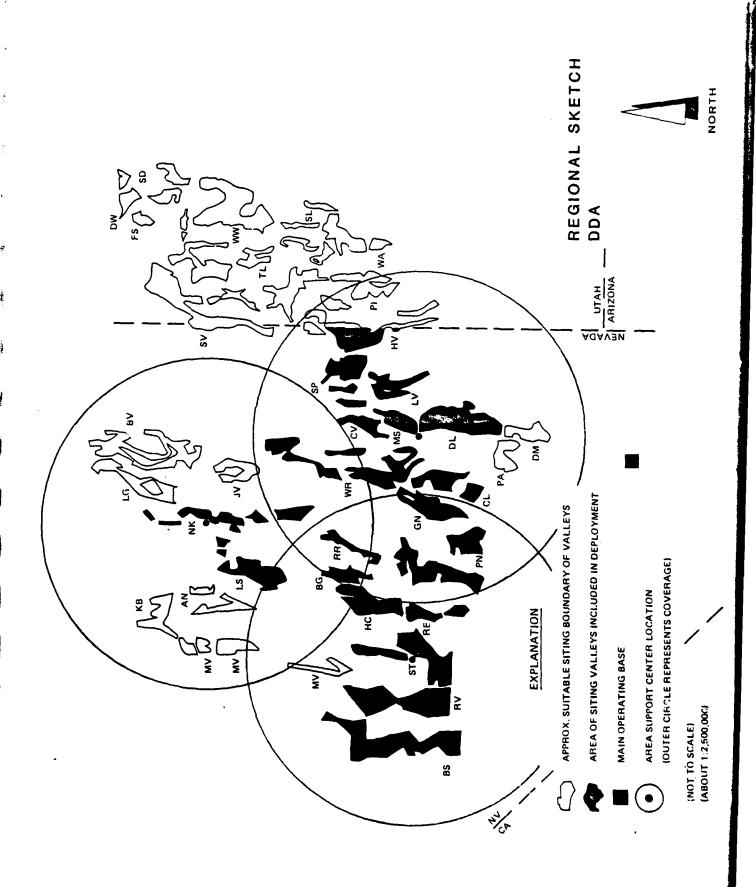
Best 2300 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys, Nevada only Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water 13-11) B)

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	ΜQ		Hamlin	НУ	312
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	λζ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	ΓΛ	286
Snake	SV		Little Smoky	LS	
Tule	TL		Long	LG	
Wah Wah	WA		Monitor	MΛ	
Whirlwind	WW		Muleshoe	WS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	318
Big Smoky	BS		Railroad	RR	
Butte	ВV		Ralston	RV	
Cave	CA	118	Reveille	RE	
Coal	CL	328	Spring	SP	82
Delamar/Pahroc	ΨΩ		Stone Cabin	ST	
Dry Lake	DĽ	426	White River	WR	398
Garden	NS.	242			
					2732
			TOTAL VALLEYS		10
			TOTAL ASCS		-



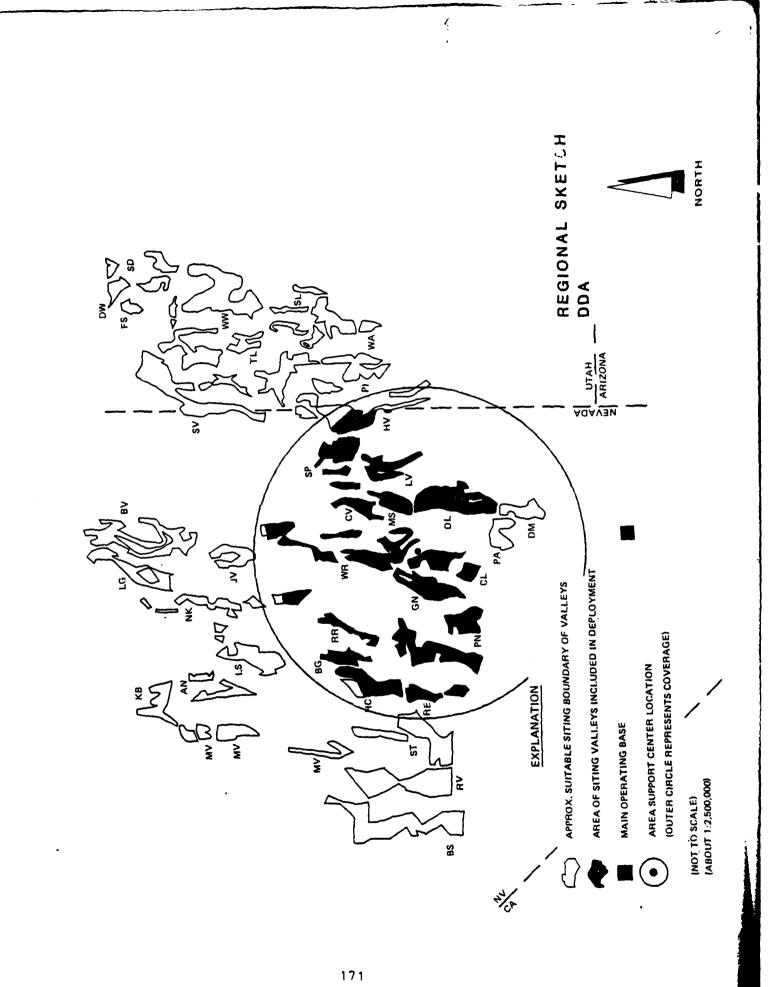
Best 2300 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys, Nevada only Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water 13-11) (၁

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DW		Hamlin	НΛ	116
Fish Springs Flat	FS		Hot Creek	HC	66
Pine	PI		Jakes	λſ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SI		Lake	ΓΛ	94
Snake	SV		Little Smoky	LS	137
Tule	TL		Long	FG	
Wah Wah	WA		Monitor	MV	
Whirlwind	WM		Muleshoe	MS	69
Antelope	AN		Newark	NK	96
Big Sand Springs	BG	57	Penoyer	PN	146
Big Smoky	BS	189	Railroad	RR	273
Butte	BV		Ralston	RV	. 256
Cave	CV	70	Reveille	RE	74
Coal	CL	201	Spring	SP	68
Delamar/Pahroc	ΜQ		Stone Cabin	ST	159
Dry Lake	DF	267	White River	WR	191
Garden	N G N	126			
			TOTAL SHELTERS		2688
			TOTAL VALLEYS		19
			TOTAL ASCS		æ



Best 2300 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys, Nevada only Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water 13-11) <u>0</u>

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	ΜQ		Hamlin	НΛ	139
Fish Springs Flat	FS		Hot Creek	HC	123
Pine	PI		Jakes	JΛ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	ΓΛ	141
Snake	SV		Little Smoky	rs	
Tule	TL		Long	Pr	
Wah Wah	WA		Monitor	MΩ	
Whirlwind	WM		Muleshoe	MS	104
Antelope	AN		Newark	NK	
Biq Sand Springs	BG	86	Penoyer	PN	219
Big Smoky	BS		Railroad	RR	375
Butte	BV		Ralston	RV	
Cave	CA	105	Reveille	RE	111
Coal	CL	302	Spring	SP	102
Delamar/Pahroc	ΜΩ		Stone Cabin	\mathbf{ST}	
Dry Lake	DI	400	White River	WR	271
Garden	R	189			
			TOTAL SHELFERS		2667
					14
					1

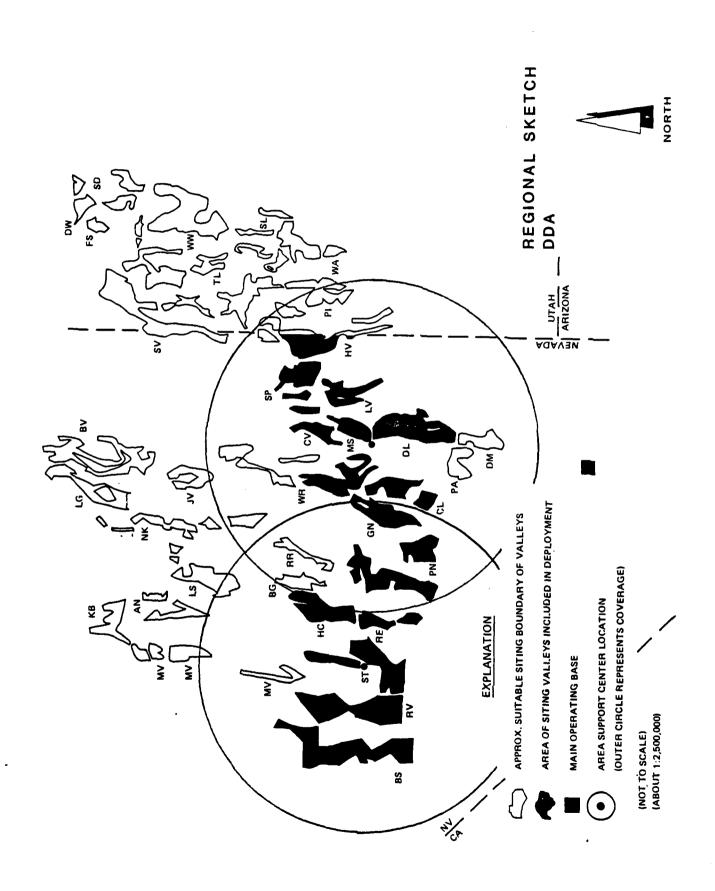


Best 2300 shelters - Coyote MOB, avoid Delamar/Pahroc valleys, Nevada only Horizontal shelters - 23:1 clustered using Ertec's 15 May numbers 13-11) Ξ

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
>	DW		Hamlin	НУ	138
Springs Flat	FS		Hot Creek	HC	138
Pine .	PI		Jakes	٦٢	
Sevier Desert	SD		Kobeh	КВ	
Sevier Lake	SL		Lake	ľΛ	161
Snake	SV		Little Smoky	ĽS	
	TL		Long	ĽG	
lah	WA		Monitor	MV	
Whirlwind	WM		Muleshoe	WS	69
оре	AN		Newark	NK	
Biq Sand Springs	BG		Penoyer	PN	115
moky	BS	230	Railroad	RR	184
,	BV		Ralston	RV	207
	C	69	Reveille	RE	69
Coal	CL	138	Spring	SP	92
ar/Pahroc	W _Q		Stone Cabin	\mathbf{ST}	184
Dry Lake	DĽ	230	White River	WR	184
Garden	NS	138			

2346 16 2

TOTAL SHELTERS TOTAL VALLEYS TOTAL ASCS



4.0 1150 SHELTER OPTIONS

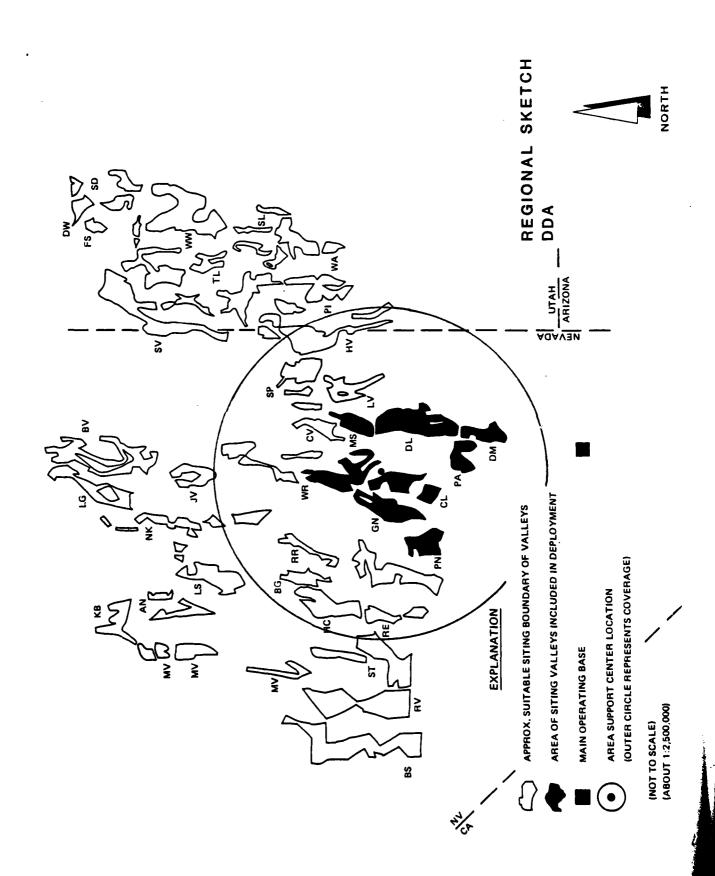
4.0 1150 SHELTER OPTIONS

This section contains options for 1150 shelters as specified in Section 1.1.

A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

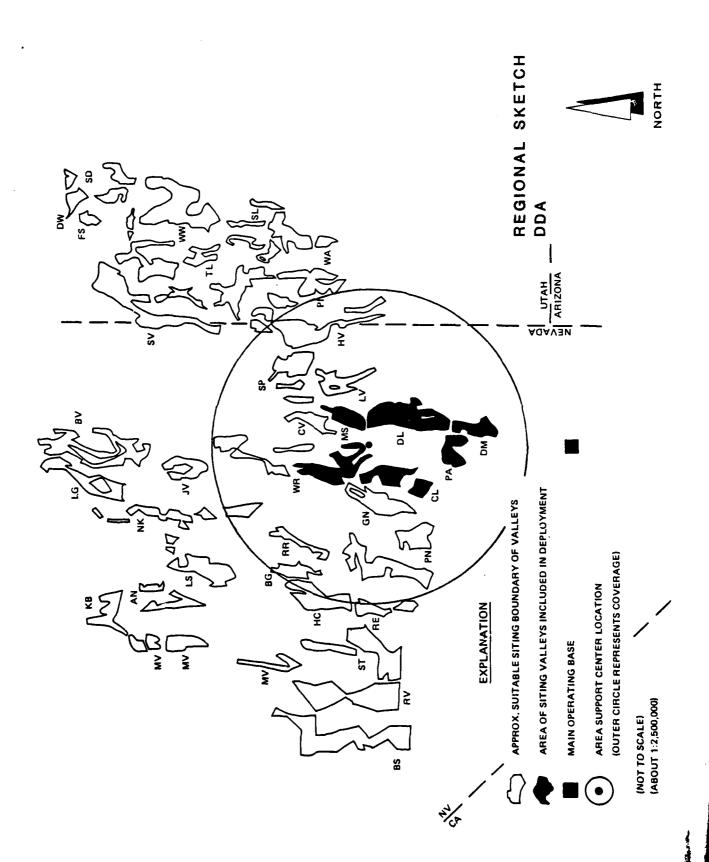
14) Best 1150 shelters and 15 percent - Coyote MOB

VALLEY	ABBRE-	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DW		Hamlin	НУ	
Fish Springs Flat	FS		Hot Creek	HC	
Pine	ΡΙ		Jakes	λC	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	ΓΛ	
Snake	SV		Little Smoky	ĽS	
Tule	TL		Long	P.G	
Wah Wah	WA		Monitor	ΜV	
Whirlwind	WM		Muleshoe	WS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	212
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	ટ		Reveille	RE	
Coal	CT	219	Spring	SP	
Delamar/Pahroc	DM	170	Stone Cabin	ST	
Dry Lake	DF	284	White River	WR	265
Garden	GN	161			
					1300
			TOTAL VALLEYS		7
					-



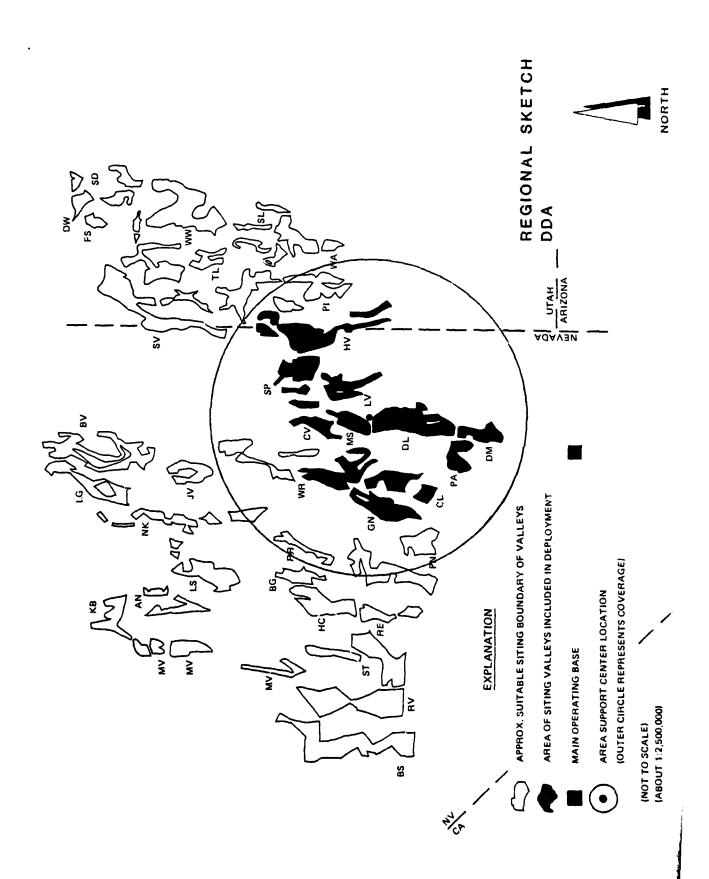
B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water 14) Best 1150 shelters and 15 percent - Coyote MOB

VALLEY	ABBRE-	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway Fish Springs Flat	DW		Hamlin Hot Creek	HV HC	
Pine Sevier Desert	SD		Jakes Kobeh	KB V	
Sevier Lake Snake	SI		Lake Little Smokv	ΓΛ	
Tule	11		Long	I.G	
Wah Wah Whirlwind	WA WW		Monitor Muleshoe	AS MS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CQ		Reveille	RE	
Coal	CL	328	Spring	SP	
Delamar/Pahroc	ΨΩ	255	Stone Cabin	ST	
Dry Lake	JG	426	White River	WR	398
Garden	Giv				
			TOTAL SHELTERS		1529
			TOTAL VALLEYS		ស
			TOTAL ASCS		_



C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water Best 1150 shelters and 15 percent - Coyote MOB 14)

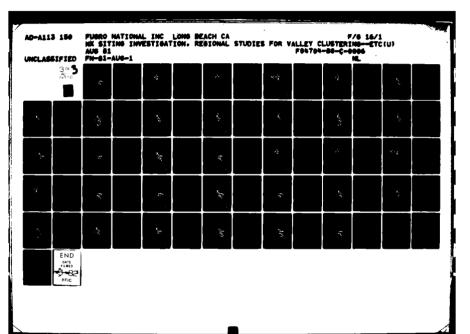
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE-VIATION	NUMBER OF SHELTERS USED
ngway	DW		Hamlin	НΛ	186
Fish Springs Flat	FS		Hot Creek	HC	
Pine -	ΡΙ		Jakes	λC	
Sevier Desert	OS .		Kobeh	КВ	
Sevier Lake	$S\Gamma$		Lake	ΓΛ	94
Snake	SV		Little Smoky	LS	
Tule	TL		Long	ĽG	
Wah Wah	WA		Monitor	MΛ	
Whirlwind	WW		Muleshoe	SW	69
ntelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
ig Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	C	70	Reveille	RE	
Coal	CL	201	Sprig	SP	68
Delamar/Pahroc	ΜΩ	138	Stor & Cabin	ST	
Dry Lake	DL	267	White River	WR	127
Garden	N C N	126			
					1346
			TOTAL SAELIERS		10

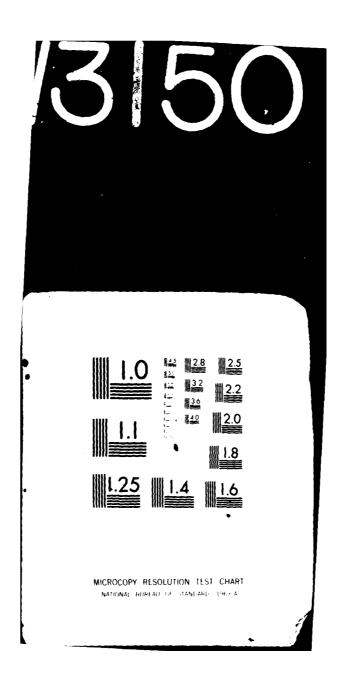


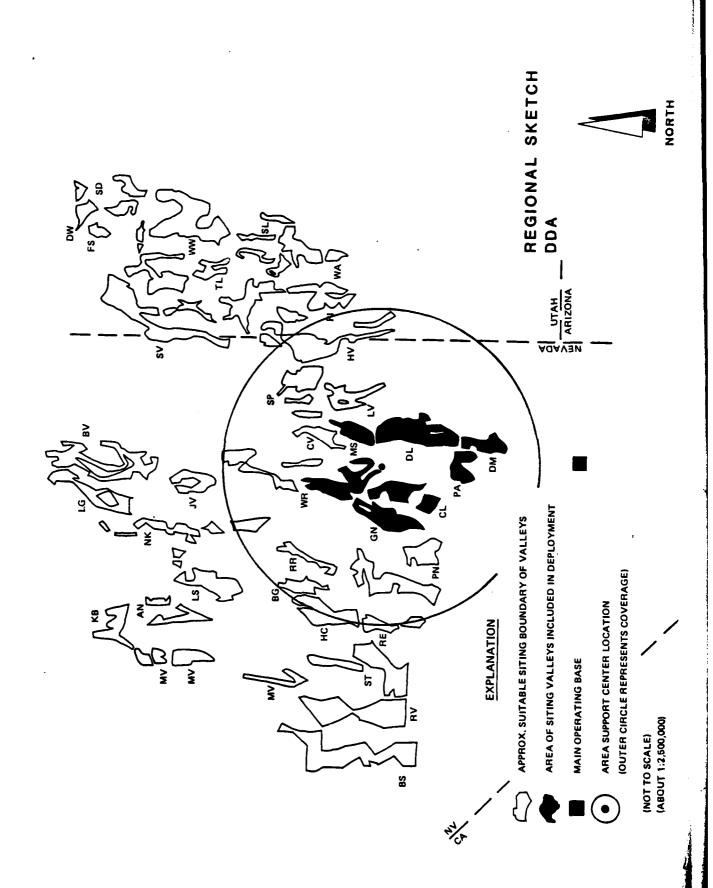
Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

14) Best 1150 shelters and 15 percent - Coyote MOB

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
		1			t
Dugway	MQ		Hamlin	НV	
Fish Springs Flat	FS		Hot Creek	HC	
Pine .	Ιď		Jakes	λſ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	$_{ m S\Gamma}$		Lake	ΓΛ	
Snake	SV		Little Smoky	LS	
Tule	TL		Long	ĽĠ	
Wah Wah	WA		Monitor	ΔM	
Whirlwind	MM		Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CQ		Reveille	RE	
Coal	CL	302	Spring	SP	
Delamar/Pahroc	ω	207	Stone Cabin	ST	
Dry Lake	DĽ	400	White River	WR	190
Garden	CN	189			
			TOTAL SHELTERS		1392
					9
			TOTAL ASCS		

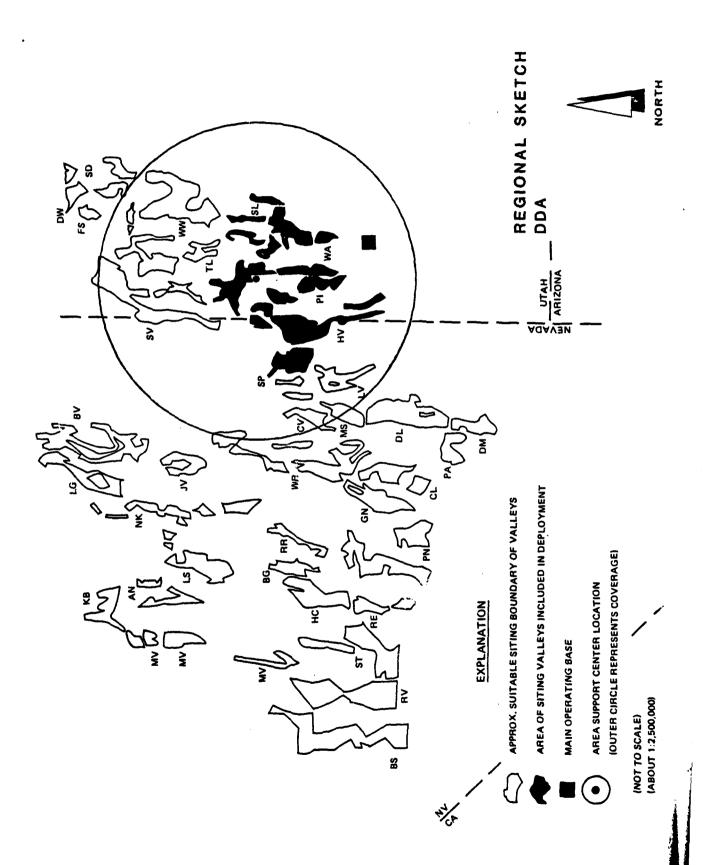






A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water Best 1150 shelters and 15 percent - Milford MOB 15)

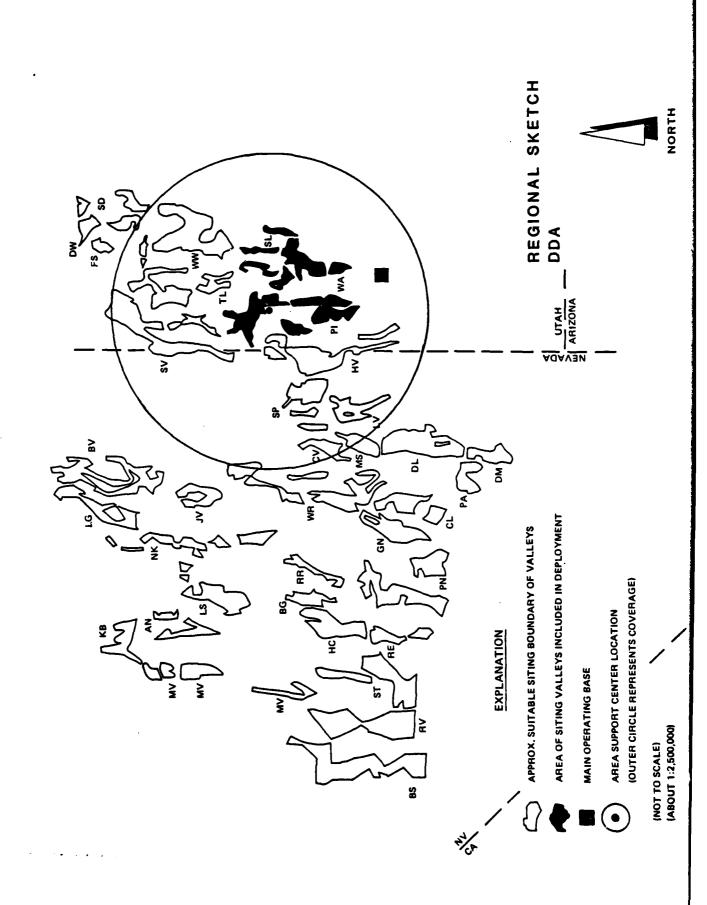
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ARBRE- VIATION	NUMBER OF SHELTERS USED	
Dugway	DW		Hamlin	HV	333	
Fish Springs Flat	FS		Hot Creek	HC		
Pine	PI	249	Jakes	λſ		
Sevier Desert	SD		Kobeh	KB		
Sevier Lake	SL	70	Lake	ΓΛ		
Snake	SV	247	Little Smoky	LS.		
Tule	TL	77	Long	91		
Wah Wah	WA	213	Monitor	MV		
Whirlwind	WW	29	Muleshoe	WS		
Antelope	AN		Newark	NK		
Big Sand Springs	BG .		Penoyer	PN		
Big Smoky	BS		Railroad	RR		
Butte	BV		Ralston	RV		
Cave	CQ		Reveille	RE		
Coal	CL		Spring	SP	121	
Delamar/Pahroc	ΜO		Stone Cabin	\mathbf{ST}		
Dry Lake	DĽ		White River	WR		
Garden	CN CN					
			TOTAL SHELTERS		1339	
			TOTAL VALLEYS		80	
					-	



B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water

15) Best 1150 shelters and 15 percent - Milford MOB

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DW BG		Hamlin not Creek	ΛΗ	
Fish Springs Fial	FS PI	374	Jakes	2 5	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL	105	Lake	ΓV	
Snake	SV	370	Little Smoky	LS	
Tule	IL	116	Long	ĽG	
Wah Wah	WA	320	Monitor	MΛ	
Whirlwind	MM	77	Muleshoe	MS	
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	Nď	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CQ		Reveille	RE	
Coal	CĽ		Spring	SP	
Delamar/Pahroc	ω		Stone Cabin	ST	
Dry Lake	DĽ		White River	WR	
Garden	NS				
			TOTAL SHELTERS		1329
					9
					-

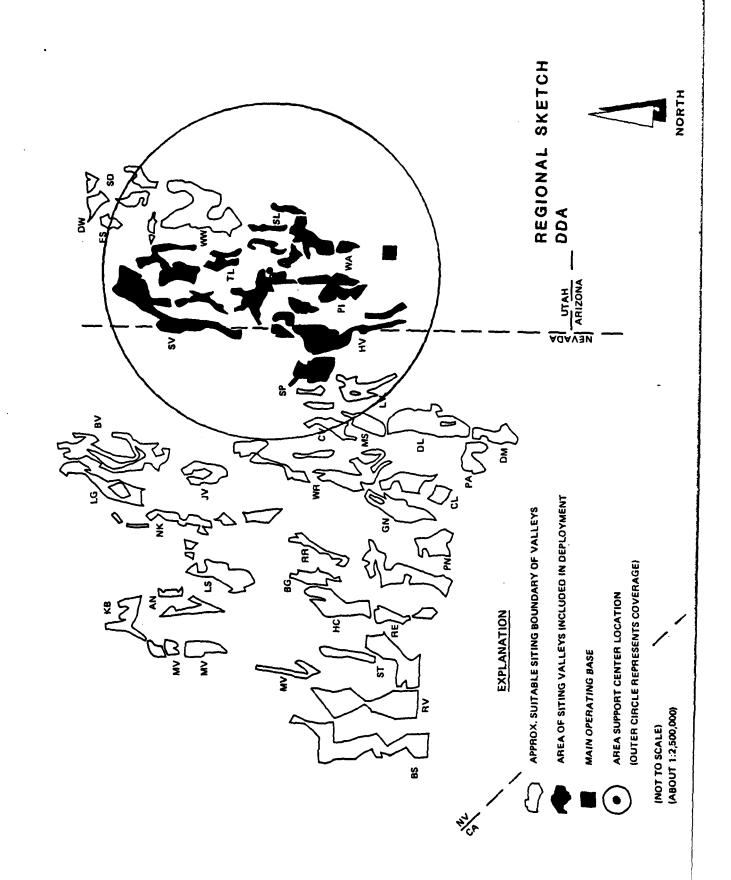


Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water ပ

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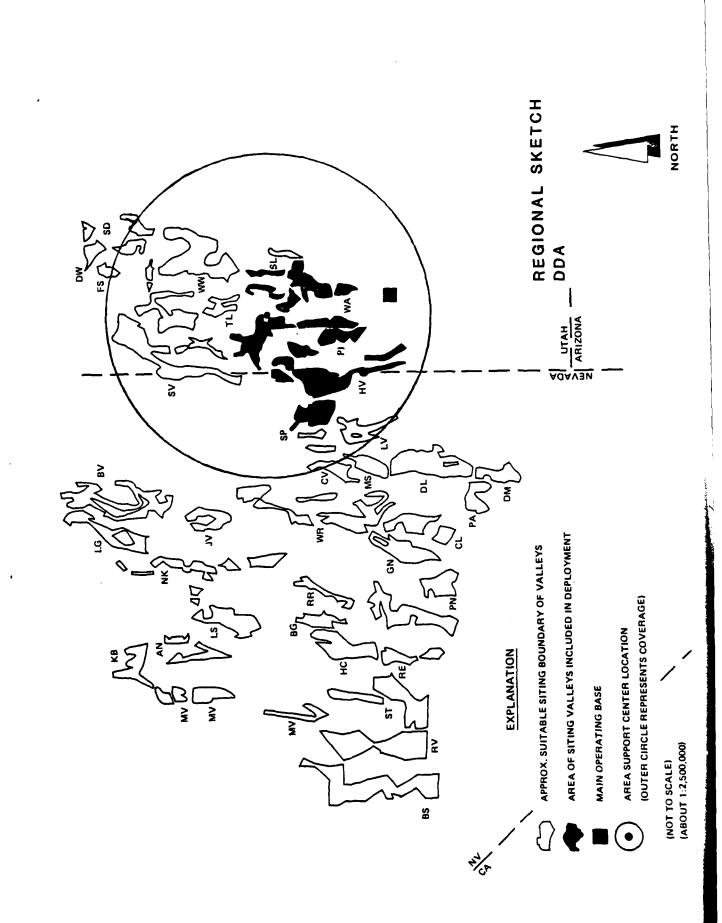
15) Best 1150 shelters and 15 percent - Milford MOB

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway Fich Springs Flat	DW		Hamlin	HV JH	186
Pine	PI	242	Jakes) }	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	\mathbf{SL}	57	Lake	ΓΛ	
Snake	SV	390	Little Smoky	r.s	
Tule	TL	198	Long	91	
Wah Wah	WA	175	Monitor	MΩ	
Whirlwind	MM	21	Muleshoe	MS	
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	S		Reveille	RE	
Coal	CF		Spring	SP	89
Delamar/Pahroc	ΨΩ		Stone Cabin	ST	
Dry Lake	DF		White River	WR	
Garden	CN				
			TOTAL SHELTERS		1337
			TOTAL VALLEYS		∞
			TOTAL ASCS		_



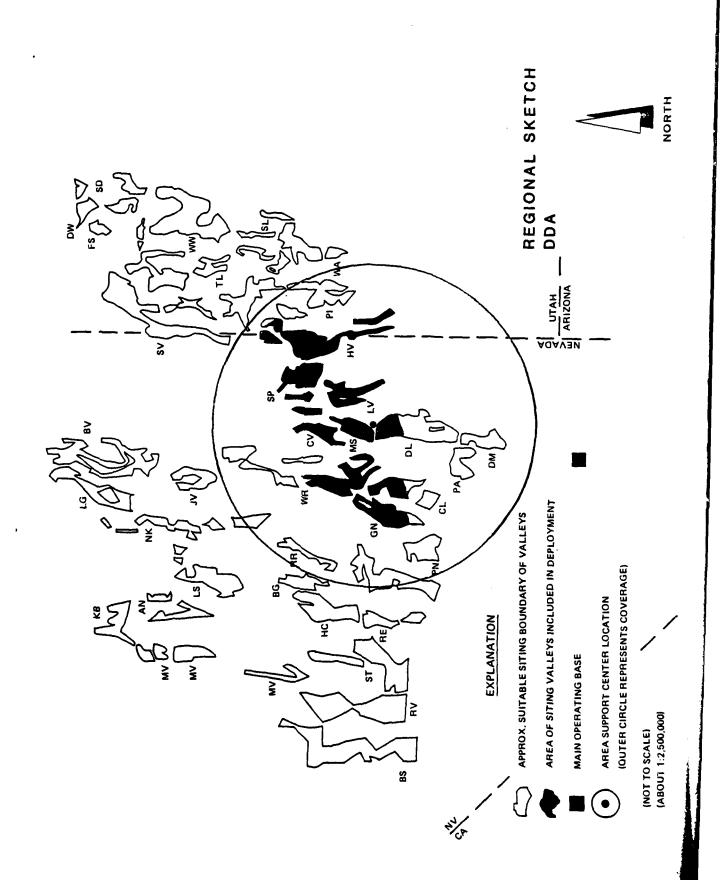
Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water Best 1150 shelters and 15 percent - Milford MOB 15) â

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	MO		Hamlin	HV	279
rish optings riat Pine	PI	363	Jakes	JV.	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	ΓΛ	
Snake	SV	222	Little Smoky	LS	
Tule	TL	62	Long	P.C	
Wah Wah	WA	263	Monitor	MΛ	
Whirlwind	WM	32	Muleshoe	MS	
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	S		Reveille	RE	
Coal	CL		Spring	SP	102
Delamar/Pahroc	D _M		Stone Cabin	ST	
Dry Lake	DE		White River	WR	
Garden	GN				
					,
					$132\overline{3}$
			TOTAL ASCS		-



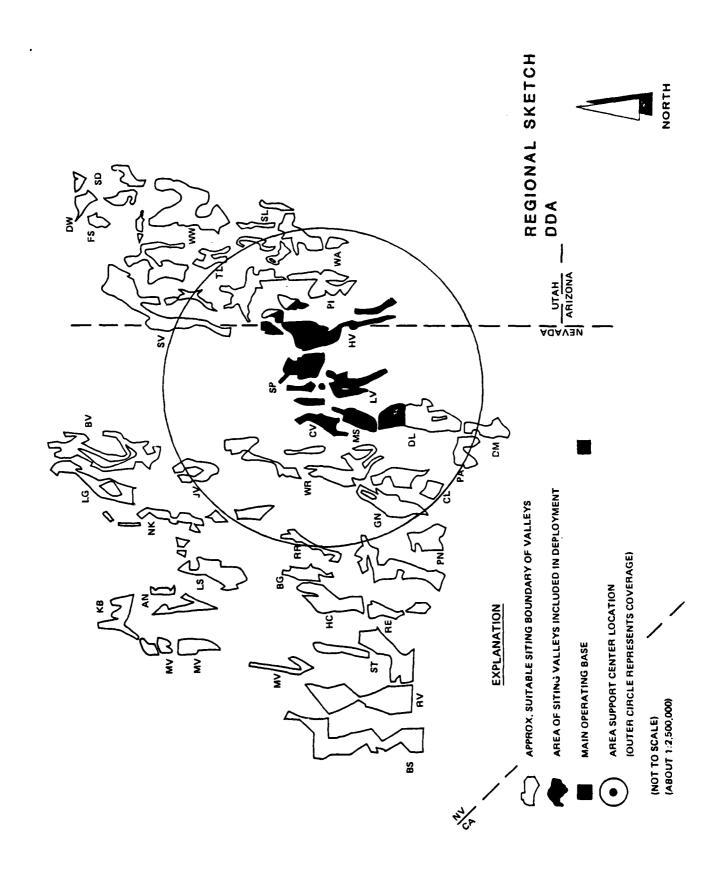
16) Best 1150 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway			Hamlin	НУ	300
Fish Springs Flat			Hot Creek	HC	
, a			Jakes	λς	
: evier Desert	SD		Kobeh	KB	
evier Lake			Lake	ľΛ	191
Snake			Little Smoky	LS	
11e			Long	57	
N Wah	WA		Monitor	MΛ	
Whiclwind	WM		Muleshoe	MS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	M	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	C	79	Reveille	RE	
Coal	CI	115	Spring	SP	121
Delamar/Pahroc	MO		Stone Cabin	ST	
Dry Lake	DF	95	White River	WR	265
Garden	ВN	110			
					1
			TOTAL SHELTERS		1357
			TOTAL VALLEYS		∑ -
			TOTAL ASCS		-



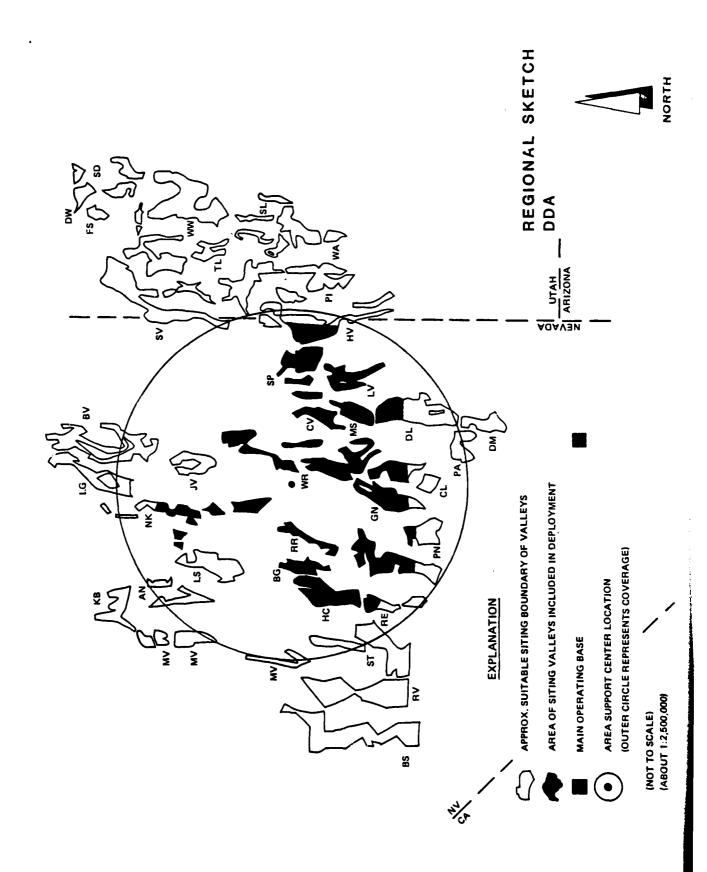
Best 1150 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water 16)

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	МО		Hamlin	НУ	450
Fish Springs Flat	FS		Hot Creek	HC	
Pine	ΡΙ		Jakes	ΔC	
Sevier Desert	SD		Kobeh	КВ	
Sevier Lake	SL		Lake	ΓΛ	286
Snake	SV	39	Little Smoky	LS	
Tule	TL		Long	I'G	
Wah Wah	WA		Monitor	MV	
Whirlwind	MM		Muleshoe	WS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	N	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	S	118	Reveille	RE	
Coal	CL		Spring	SP	182
Delamar/Pahroc	DΜ		Stone Cabin	\mathbf{ST}	
Dry Lake	DĽ	142	White River	WR	
Garden	CN				
					1339
			TOTAL VALLEYS		
					•



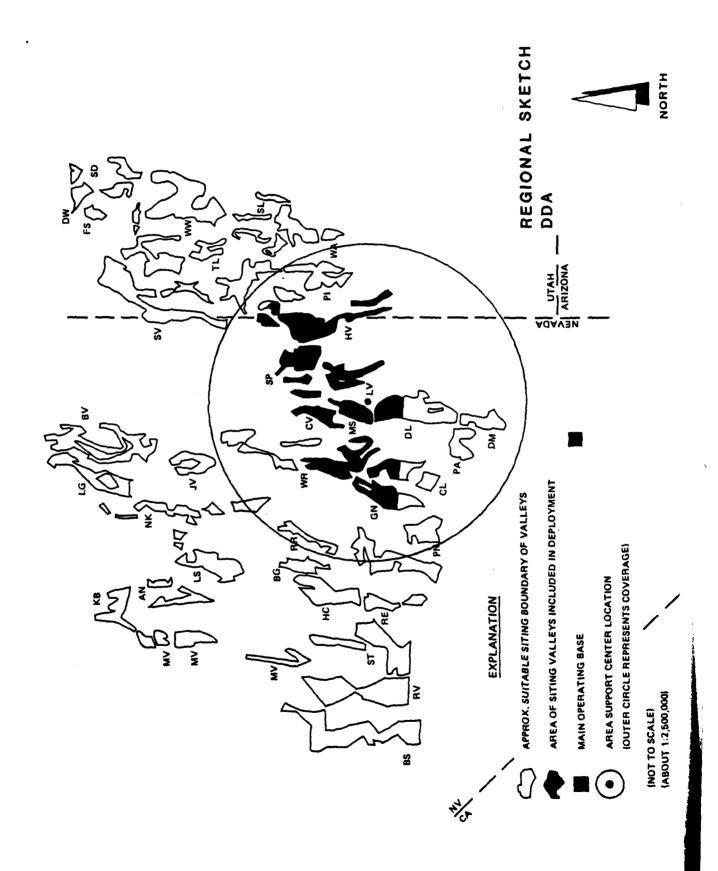
Best 1150 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water 16) (၁

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway			Hamlin	HΛ	115
Fish Springs Flat			Hot Creek	HC	66
Pine			Jakes	λſ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake			Lake	ľΛ	94
Snake			Little Smoky	I'S	
Tule	TL		Long	91	
wah wah	WA		Monitor	ΔW	
Whirlwind	WM		Muleshoe	MS	69
Antelope	AN		Newark	NK	77
Big Sand Springs	BG	57	Penoyer	N.A.	24
Big Smoky	BS		Railroad	RR	213
Butte	ΒV		Ralston	RV	
Cave	S)	70	Reveille	RE	22
Coal	CF.	106	Spring	SP	89
Delamar/Pahroc	MO		Stone Cabin	ST	
Dry Lake	DĽ	68	White River	WR	191
Garden	Q.	98			
					1380
					15
			TOTAL ASCS		_



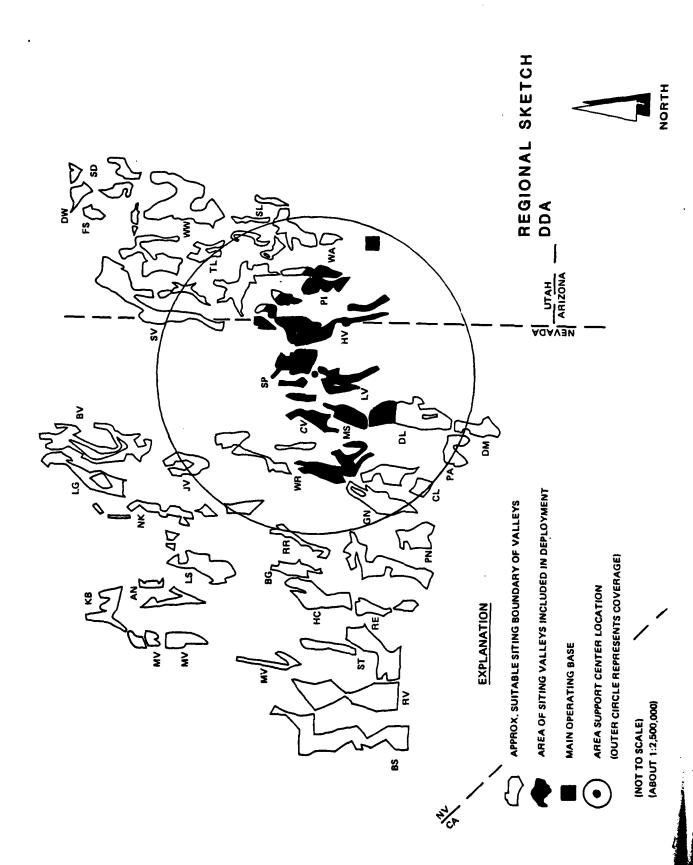
Best 1150 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water 16) Q Q

VALLEY	ABBRE-	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	ΜQ		Hamlin	НУ	252
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI,		Jakes	Σſ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	$S\Gamma$		Lake	ΓΛ	141
Snake	SV		Little Smoky	rs	
Tule	TL		Long	<u>1</u> .6	
Wah Wah	WA		Monitor	MΛ	
Whirlwind	WW		Muleshoe	WS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CQ	105	Reveille	RE	
Coal	CI	159	Spring	\mathbf{SP}	102
Delamar/Pahroc	ΜQ		Stone Cabin	ST	
Dry Lake	DĽ	134	White River	WR	190
Garden	GN	129			
					1316
					Э
			TOTAL ASCS		-



Best 1150 shelters and 15 percent - Milford MOB, avoid all MOAs and Restricted Areas A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water 17)

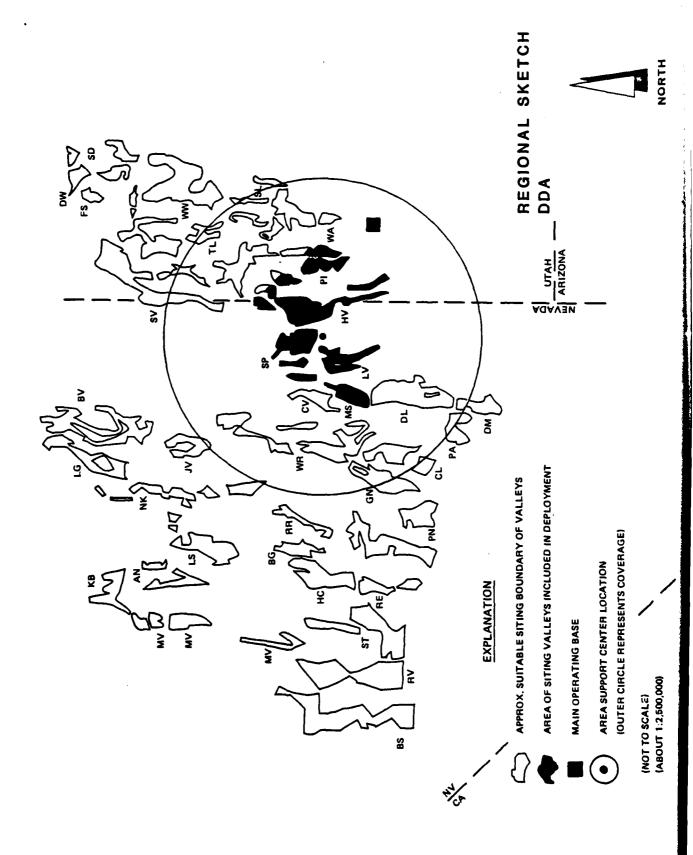
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE -	NUMBER OF SHELTERS USED
Dugway			Hamlin	НV	300
Fish Springs Flat			Hot Creek	HC	
Pine		166	Jakes	JΛ	
Sevier Desert			Kobeh	KB	
Sevier Lake			Lake	ΓΛ	191
Snake	SV	26	Little Smoky	LS.	
Tule			Long	97	
Wah Wah	WA		Monitor	MV	
Whirlwind	WM		Muleshoe	MS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	ΒV		Ralston	RV	
Cave	C	79	Reveille	RE	
Coal	CF		Spring	SP	121
Delamar/Pahroc	ωQ		Stone Cabin	ST	
Dry Lake	ΩĽ	95	White River	WR	265
Garden	N				
					1324
			TOTAL VALLEYS		
					•



Best 1150 shelters and 15 percent - Milford MOB, avoid all MOAs and Restricted Areas B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DW		Hamlin	НУ	450
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	249	Jakes	Δſ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	ΓΛ	286
Snake	SV	39	Little Smoky	ĽS	
Tule	TL		Long	I'G	
Wah Wah	WA		Monitor	MΛ	
Whirlwind	MM		Muleshoe	WS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	C		Reveille	RE	
Coal	CF		Spring	· SP	182
Delamar/Pahroc	ΜQ		Stone Cabin	ST	
Dry Lake	DĽ		White River	WR	
Garden	S S				

TOTAL SHELTERS TOTAL VALLEYS TOTAL ASCS



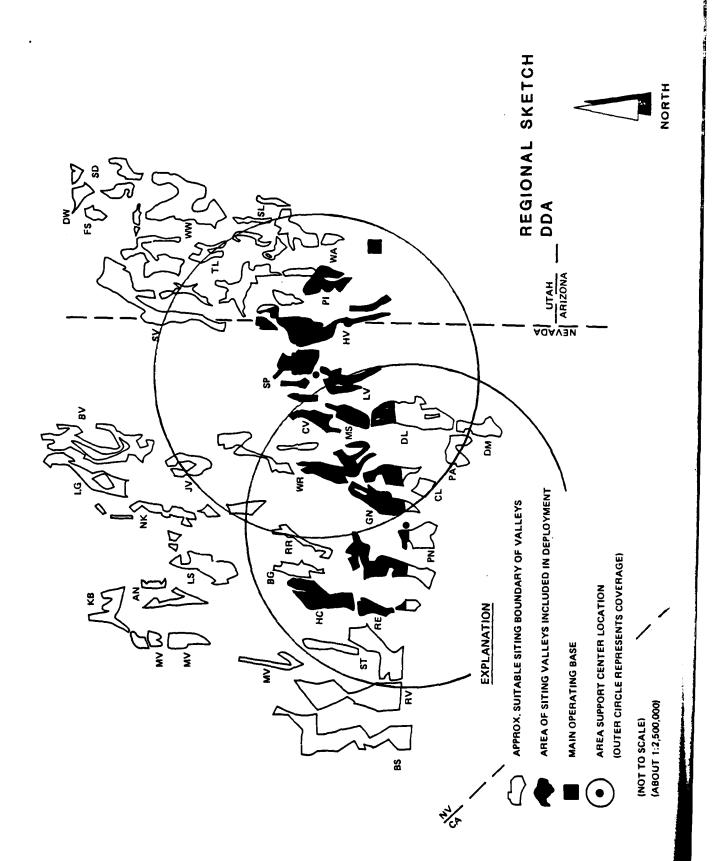
Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water ()

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Best 1150 shelters and 15 percent - Milford MOB, avoid all MOAs and Restricted Areas

17)

NUMBER OF SHELTERS USED	168	94	69 24 104	59 68 122	1324 14 2
ABBRE-VIATION	HV HC JV KB	17. 17.0 17.0 17.0 17.0 17.0 17.0 17.0 1	MS NK PN RR RV	SP ST	1 1
VALLEY	Hamlin Hot Creek Jakes Kobeh	Lake Little Smoky Long Monitor	Muleshoe Newark Penoyer Railroad Ralston	Reveille Spring Stone Cabin	TOTAL SHELTERS TOTAL VALLEYS TOTAL ASCS
NUMBER OF SHELTERS USED	161			70 106 89	5 9
ABBRE- VIATION	DW FS SD	SL SV TL	WW AN BG BS	O C C	GN
VALLEY	Dugway Fish Springs Flat Pine Sevier Desert	Sevier Lake Snake Tule Wah Wah	Whirlwind Antelope Big Sand Springs Big Smoky Butte	Cave Coal Delamar/Pahroc Dry Lake	Garden



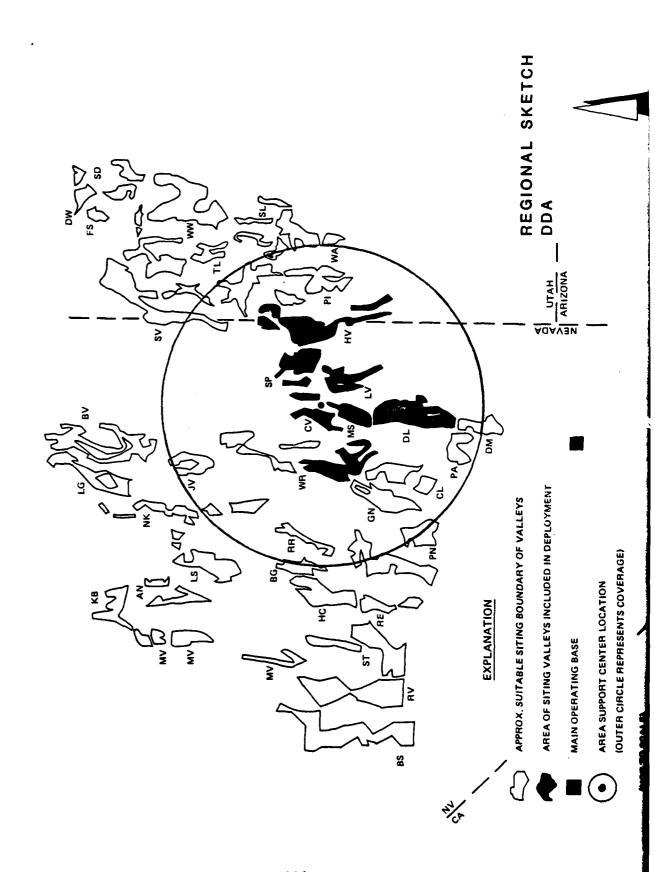
Best 1150 shelters and 15 percent - Milford MOB, avoid all MOAs and Restricted Areas Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water 17) Q

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
	ΜQ		Hamlin	НΛ	252
prings Flat	FS		Hot Creek	HC	
Pine	PI	242	Jakes	λς	
Desert	SD		Kobeh	KB	
Sevier Lake	$S\Gamma$		Lake	ΓΛ	141
	SV		Little Smoky	L.S	
	T		Long	P.G	
he	WA		Monitor	MV	
Whirlwind	WM		Muleshoe	MS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
oky	BS		Railroad	RR	
ı	BV		Ralston	RV	
	CA	105	Reveille	RE	
	Cľ	159	Spring	SP	102
Delamar/Pahroc	DM		Stone Cabin	ST	
Dry Lake	DĽ	134	White River	WR	190
Garden	CN				
			MOMAT. CHET. PEDC		1429
			TOTAL VALLEYS		675
					

Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water 18) Best 1150 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys A)

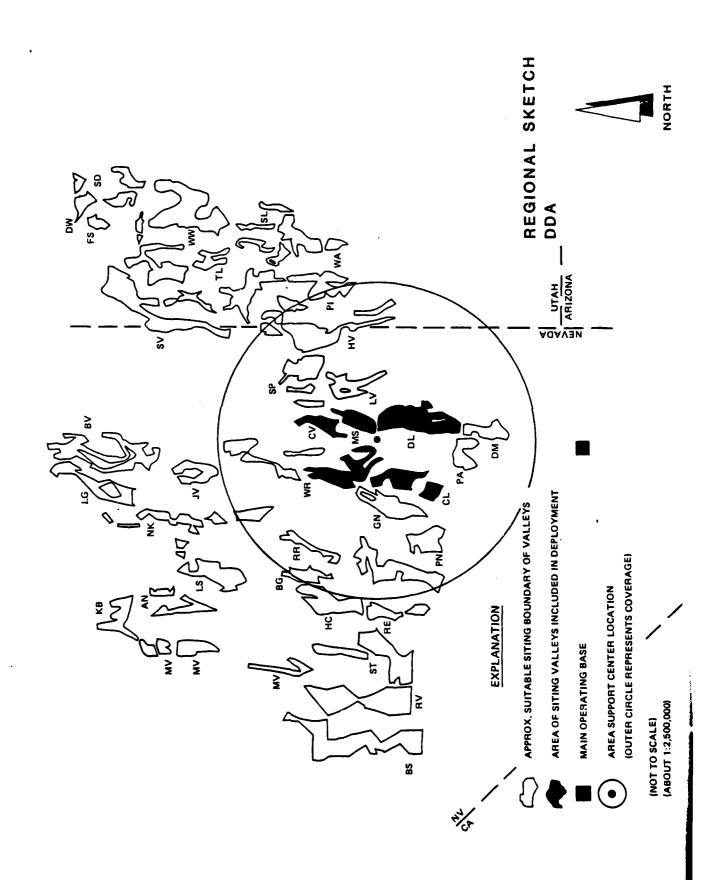
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
иау	DW		Hamlin	НΛ	333
Fish Springs Flat	FS		Hot Creek	HC	,
Pine	ΡΙ		Jakes	ß	
Sevier Desert	SD		Kobeh	KB	
ier Lake	$S\Gamma$		Lake	ΓΛ	191
Snake	SV		Little Smoky	LS	
Tule	TL		Long	<u>1</u> 2	
Wah Wah	WA		Monitor	MΛ	
Whirlwind	WM		Muleshoe	WS	81
Antelope	AN		Newark	NK	
Sand Springs	BG		Penoyer	NA	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV	79	Reveille	RE	
Coal	CL		Spring	SP	121
Delamar/Pahroc	ΜQ		Stone Cabin	ST	
Dry Lake	DĽ	284	White River	WR	265
Garden	CSN				

TOTAL SHELTERS TOTAL VALLEYS TOTAL ASCS



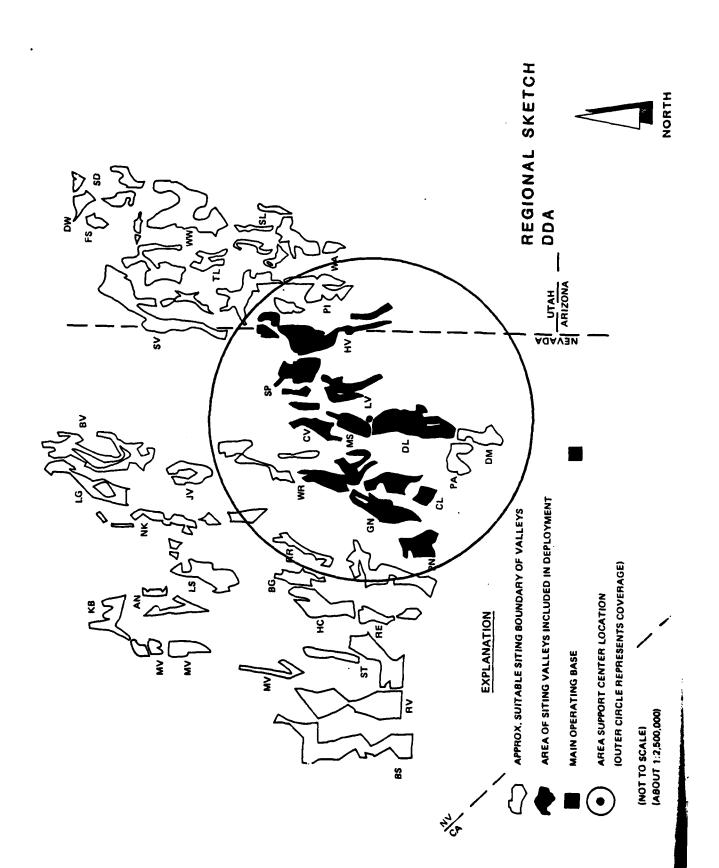
Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water Best 1150 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys 18)

VALLEY	ABBRE-	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway Fish Springs Flat	DW FS		Hamlin Hot Creek	HV HC	
Pine	PI		Jakes	λſ	
evier Desert	SD		Kobeh	KB	
Sevier Lake	\mathbf{SL}		Lake	ΓΛ	
Snake	SV		Little Smoky	LS	
Tule	TL		Long	ĽG	
ah Wah	WA		Monitor	MΛ	
Whirlwind	WM		Muleshoe	WS	122
Antelope	AN		Newark	NK	
ig Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CA	118	Reveille	RE	
Coal	<u>5</u>	328	Spring	SP	
Delamar/Pahroc	ΩW		Stone Cabin	ST	
Dry Lake	DĽ	426	White River	WR	398
Garden	СN				
			TOTAL SHELTERS		1392 5
					n



Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water Best 1150 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys 18) (၁

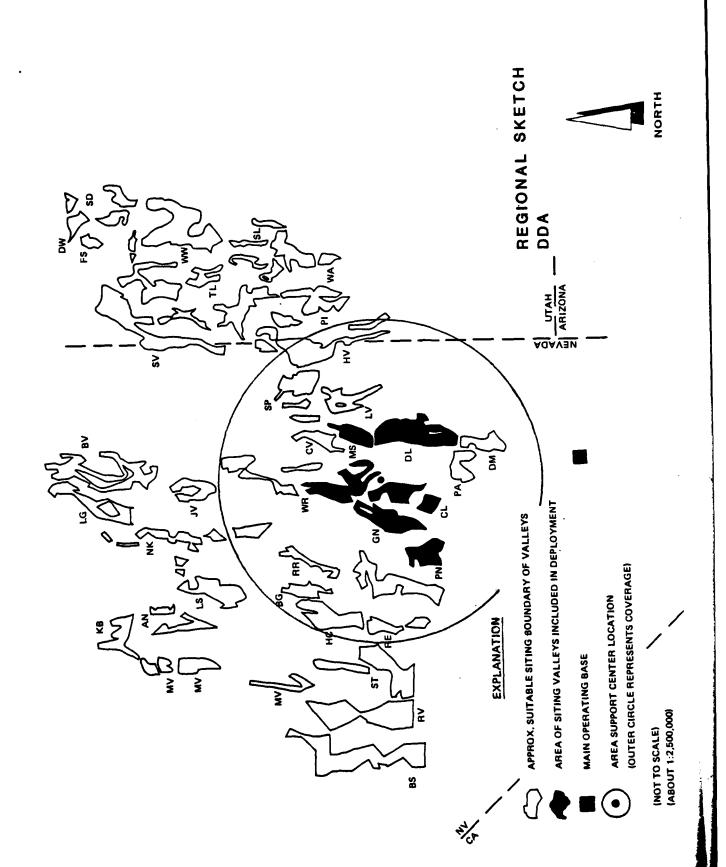
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugwav	ΜQ		Hamlin	НУ	186
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	λſ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	ΓΛ	94
Snake	SV		Little Smoky	LS	
Tule	TL		Long	57	
Wah Wah	WA		Monitor	ΔW	
Whirlwind	WM		Muleshoe	WS	69
Antelope	AN		Newark	NK	
Biq Sand Springs	BG		Penoyer	PN	146
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	S	70	Reveille	RE	
Coal	CF	201	Spring	SP	89
Delamar/Pahroc	DM		Stone Cabin	\mathbf{ST}	
Dry Lake	DF	267	White River	WR	127
Garden	GN	126			
			odde tano ikeom		1254
			TOTAL SHELLERS		10
					-



Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water â

Best 1150 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys 18)

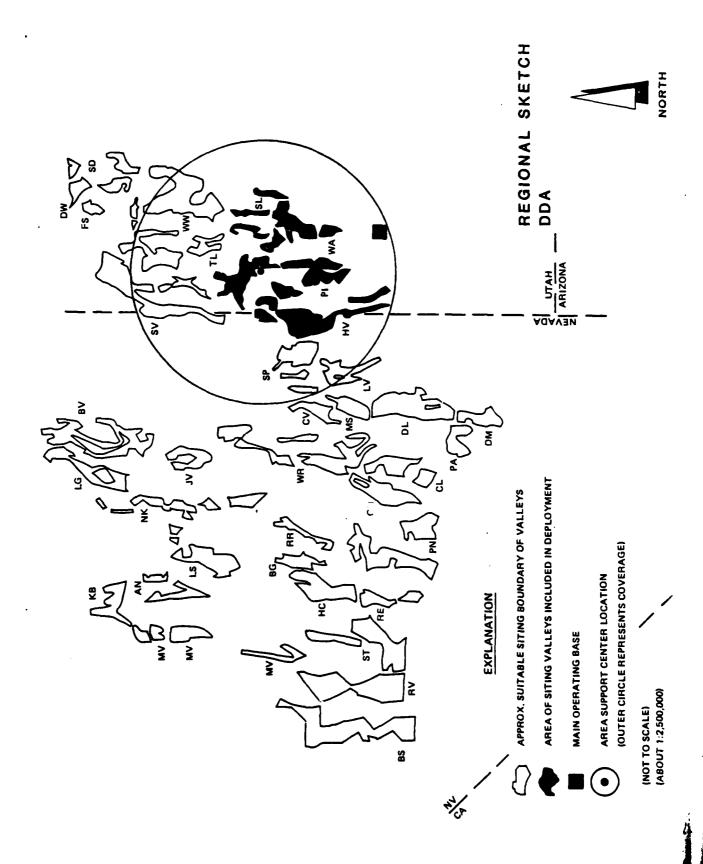
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Jugway	DW		Hamlin	НΛ	
Fish Springs Flat	FS		Hot Creek	HC	
Pine	ΡΙ		Jakes	JΛ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	ľV	
Snake	SV		Little Smoky	ľS	
Tule	TL		Long	EG SI	
Wah Wah	WA		Monitor	MΛ	
Whirlwind	WM		Muleshoe	WS	104
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	219
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CS		Reveille	RE	
Coal	CF	302	Spring	SP	
Delamar/Pahroc	ΨΩ		Stone Cabin	ST	
Dry Lake	DF	400	White River	WR	190
Garden	GN	189			
			TOTAL SHELTERS		1404
			TOTAL VALLEYS		9
			TOTAL ASCS		_



A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water 19) Best 1150 shelters and 15 percent - Milford MOB, avoid Delamar/Pahroc valleys

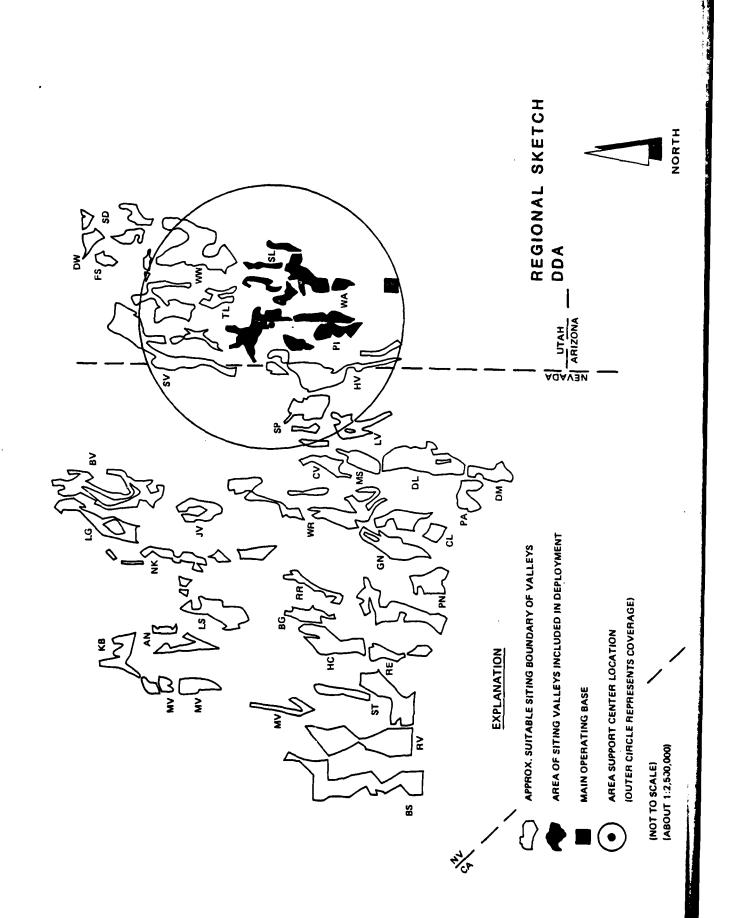
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	DΜ		Hamlin	НΛ	333
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI	249	Jakes	λ	
Sevier Desert	SD		Kobeh	KB	•
Sevier Lake	$_{ m SL}$	70	Lake	ΓΛ	
Snake	SV	247	Little Smoky	LS	
Tule	TL	77	Long	P.C	
Wah Wah	WA	213	Monitor	MΛ	
Whirlwind	MM	29	Muleshoe	MS	
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CV		Reveille	RE	
Coal	CL		Spring	SP	121
Delamar/Pahroc	ω		Stone Cabin	\mathbf{ST}	
Dry Lake	DF		White River	WR	
Garden	GN				

TOTAL SHELTERS TOTAL VALLEYS TOTAL ASCS



Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water Best 1150 shelters and 15 percent - Milford MOB, avoid Delamar/Pahroc valleys 19) B)

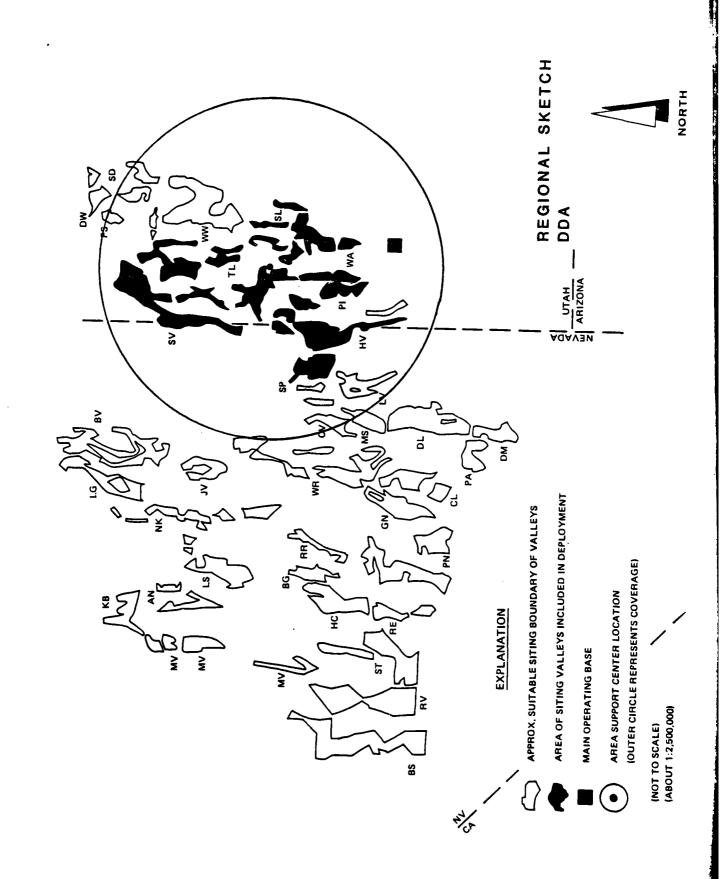
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	MO		Hamlin	HV	
Fish Springs Flat	F.S.	f	Hot Creek	J.	
Pine	ΡΙ	374	Jakes	25	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL	105	Lake	ΓΛ	
Snake	SV	370	Little Smoky	LS	
Tule	TL	116	Long	ĽG	
Wah Wah	WA	320	Monitor	MV	
Whirlwind	ΜM	44	Muleshoe	MS	
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	8 8	
Butte	BV		Ralston	RV	
Cave	CV		Reveille	RE	
Coal	J)		Spring	\mathbf{SP}	
Delamar/Pahroc	ΨΩ		Stone Cabin	\mathbf{ST}	
Dry Lake	Ωľ		White River	WR	
Garden	ĞN				
					9001
	·		TOTAL SHELTERS		975 I
					· —



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C) Horizontal shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water Best 1150 shelters and 15 percent - Milford MOB, avoid Delamar/Pahroc valleys 19)

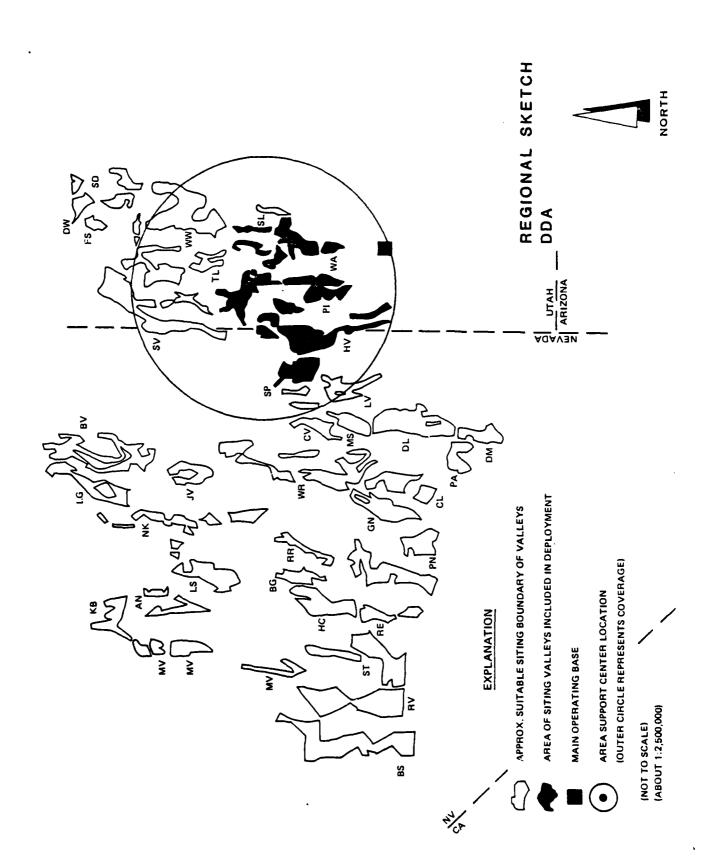
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Sugway	ΜQ		Hamlin	НΛ	186
Fish Springs Flat	FS		Hot Creek	НС	
gine	Ιď	242	Jakes	ΔΩ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SI	57	Lake	ΓΛ	
Snake	SV	390	Little Smoky	rs	
Fule	TL	198	Long	FG	
Wah Wah	WA	175	Monitor	MΛ	
Whirlwind	MM	21	Muleshoe	MS	
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CC		Reveille	RE	
Coal	J.		Spring	SP	89
Delamar/Pahroc	ΨΩ		Stone Cabin	\mathbf{ST}	
Dry Lake	DF		White River	WR	
Garden	ND				
			Add Tallo Tranca		1337
			TOTAL SAELIERS TOTAL VALLEYS		8
			TOTAL ASCS		_



D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water Best 1150 shelters and 15 percent - Milford MOB, avoid Delamar/Pahroc valleys 19)

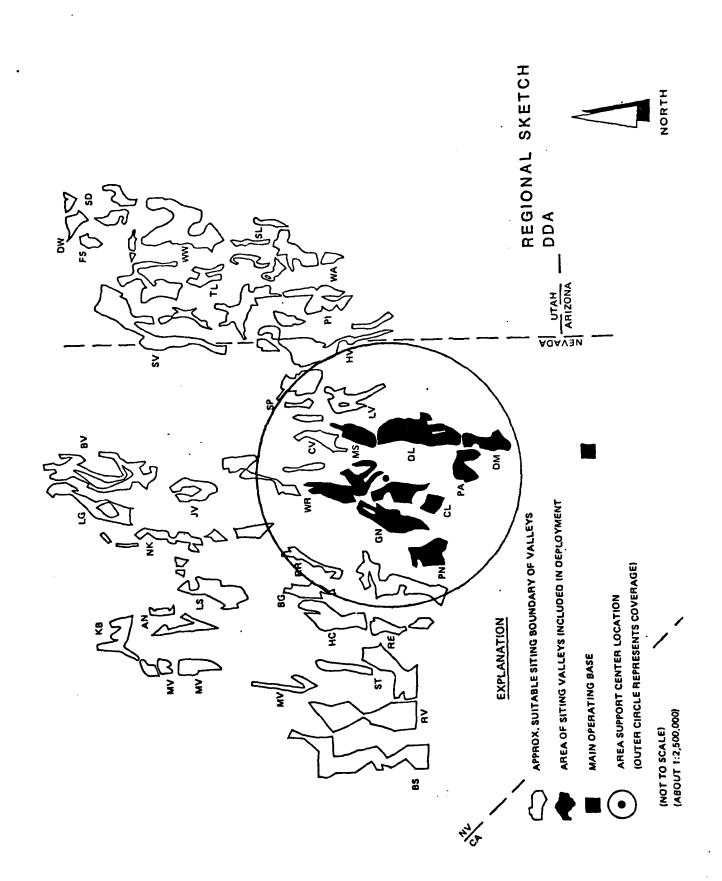
The state of the s

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway Fish Springs Flat Pine Sevier Desert Sevier Lake Snake Tule Wah Wah Whirlwind Antelope Big Sand Springs Big Sand Springs Cave Coal Delamar/Pahroc Dry Lake	PN SD	363 222 62 62 33 32	Hamlin Hot Creek Jakes Kobeh Lake Little Smoky Long Monitor Muleshoe Newark Penoyer Railroad Raiston Reveille Spring Stone Cabin	HV LLS LLS LLG LLG RN RN RN RN SP RR SP SP SP SP SP SP SP SP SP SP SP SP SP	102
			TOTAL SHELTERS TOTAL VALLEYS TOTAL ASCS		1323 7 1



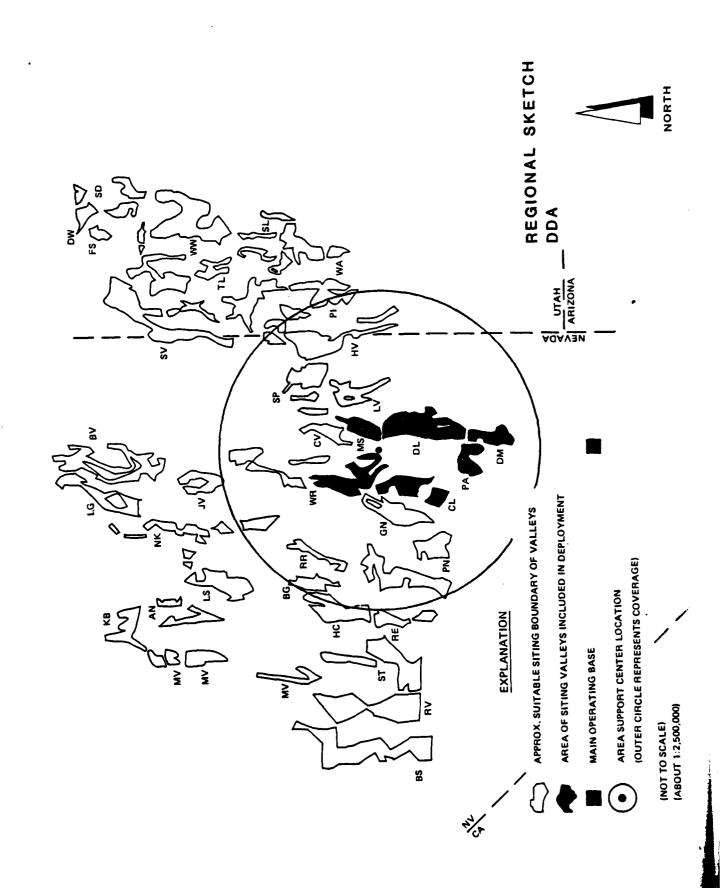
A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water 20-14) Best 1150 shelters and 15 percent - Coyote MOB, Nevada only

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	ΜQ		Hamlin	НΛ	
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	λſ	
Sevier Desert	SD		Kobeh	КВ	
Sevier Lake	$\mathbf{S}\mathbf{\Gamma}$		Lake	ΓΛ	
Snake	SV		Little Smoky	ĽS	
Tule	TL		Long	ĽG	
Wah Wah	WA		Monitor	MΛ	
Whirlwind	WM		Muleshoe	WS	81
Antelope	AN		Newark	XX	
Biq Sand Springs	BG		Penoyer	PN	212
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CA		Reveille	RE	
Coal	CL	219	Spring	$_{ m SP}$	
Delamar/Pahroc	ΨΩ	170	Stone Cabin	\mathbf{ST}	
Dry Lake	DĽ	284	White River	WR	265
Garden	CN	161			
			SHELTERS		1392
			TOTAL VALLEYS		7
			TOTAL ASCS		



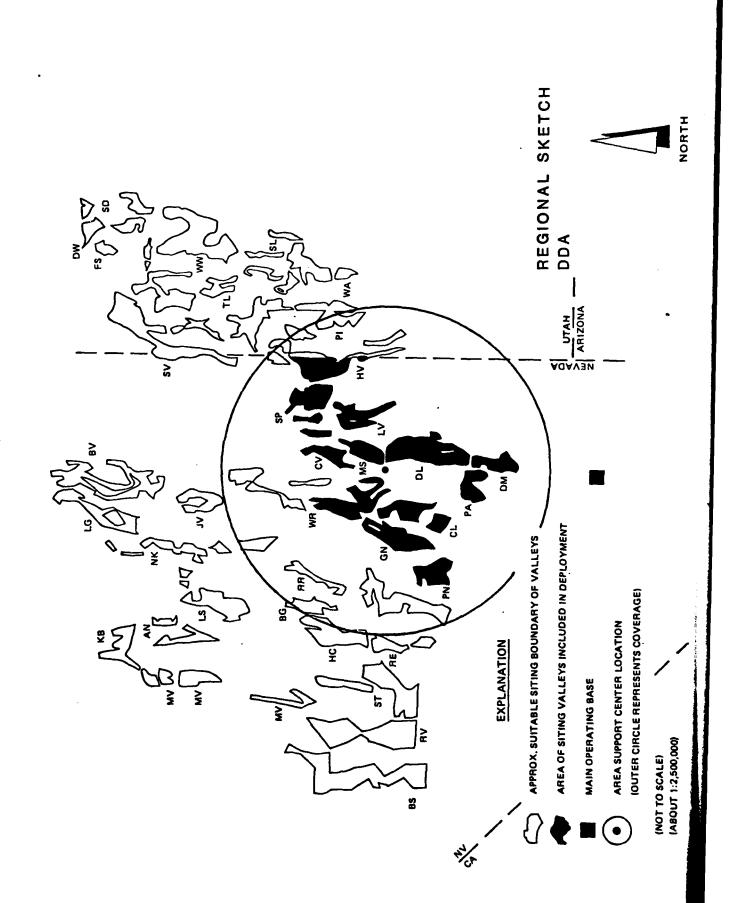
B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water 20-14) Best 1150 shelters and 15 percent - Coyote MOB, Nevada only

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	MQ	•	Hamlin	НV	
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	30	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	ľΛ	
Snake	SV		Little Smoky	LS	
Tule	TL		Long	<u>1</u> 2	•
Wah Wah	WA		Monitor	ΔW	
Whirlwind	MM		Muleshoe	WS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	C		Reveille	RE	
Coal	CL	328	Spring	SP	
Delamar/Pahroc	WQ	255	Stone Cabin	ST	
Dry Lake	DL	426	White River	WR	398
Garden	CN				
			Soam talls I thou		15.79
					5



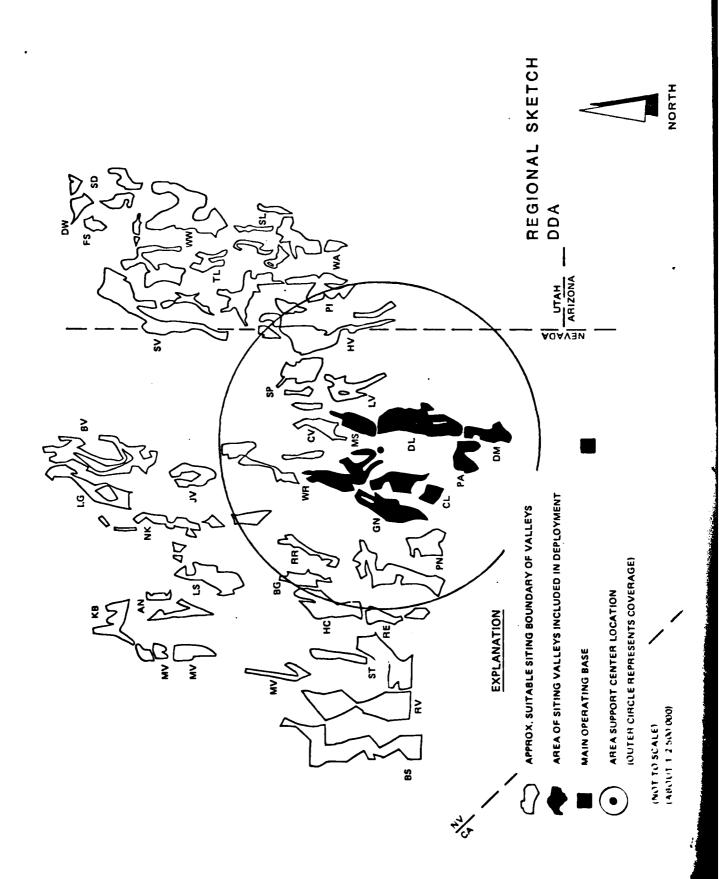
C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water 20-14) Best 1150 shelters and 15 percent - Coyote MOB, Nevada only

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway Fish Springs Flat	DW FS		Hamlin Hot Creek	HV	116
Pine			Jakes) N	
Sevier Desert			Kobeh	KB	
Sevier Lake			Lake	ΓΛ	94
Snake			Little Smoky	ĽS	
Tule	TĽ		Long	ยูว	
Wah Wah	WA		Monitor	MΩ	
Whirlwind	WM		Muleshoe	WS	69
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	146
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	S	70	Reveille	RE	
Coal	CF	201	Spring	SP	89
Delamar/Pahroc	ωQ	138	Stone Cabin	ST	
Dry Lake	DĽ	267	White River	WR	127
Garden	Ċ	126			
			TOTAL SHELTERS		1422
			TOTAL VALLEYS		11
			TOTAL ASCS		-



D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water 20-14) Best 1150 shelters and 15 percent - Coyote MOB, Nevada only

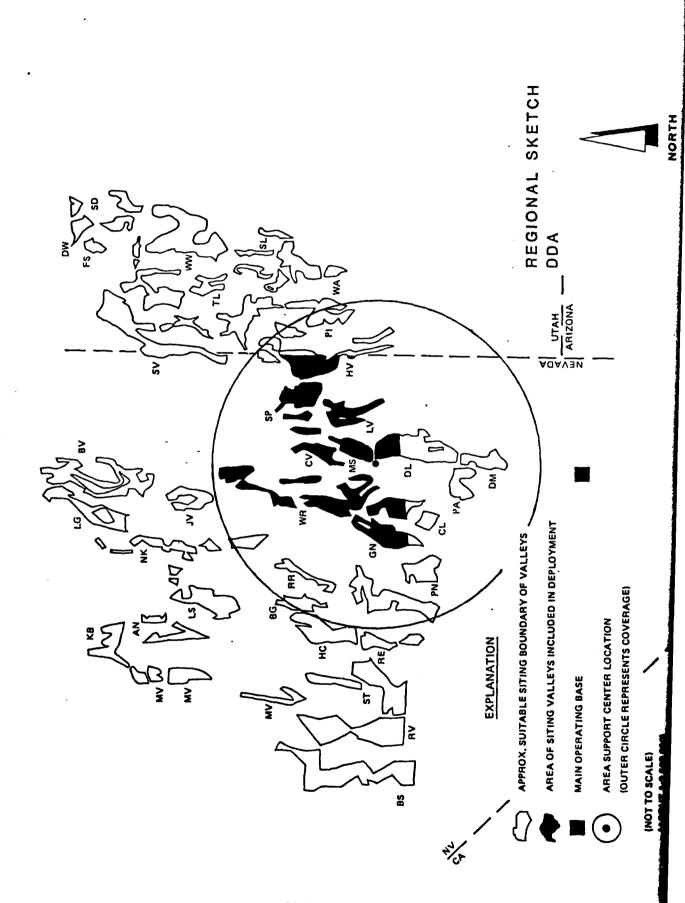
NUMBER OF SHELTERS USED



20-16) Best 1150 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas, Nevada only A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water

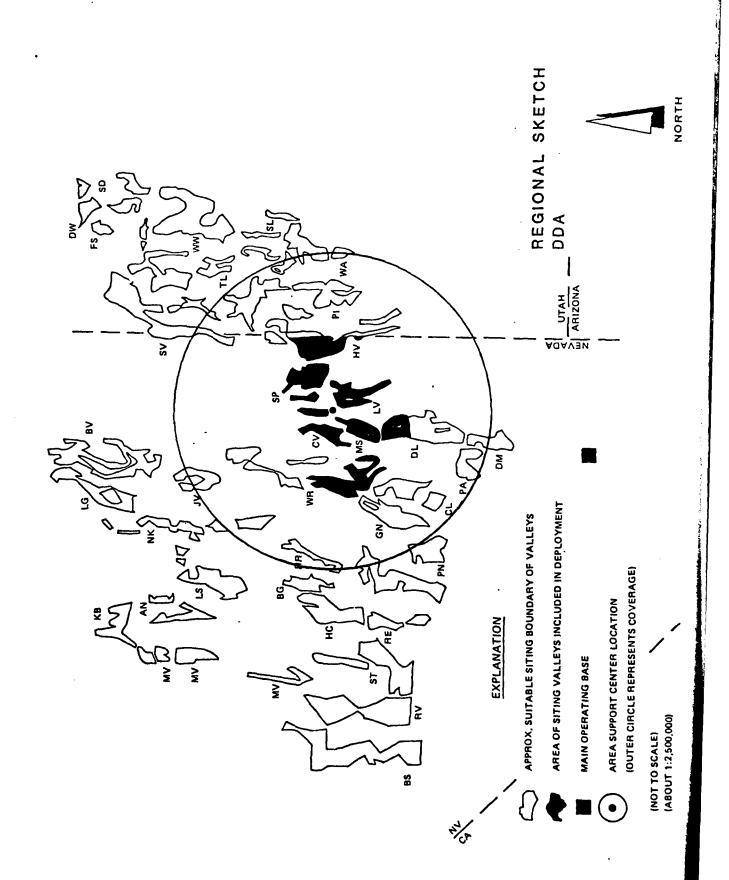
A STATE OF STREET STREET

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF
Dugway	DW		Hamlin	. VH	208
Fish Springs Flat	FS		Hot Creek	HC	
Pine	PI		Jakes	ΔΩ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	ΓΛ	191
Snake	SV		Little Smoky	L.S	
Tule	TL		Long	51	
Wah Wah	WA		Monitor	MV	
Whirlwind	MM		Muleshoe	MS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CA	79	Reveille	RE	
Coal	CL	115	Spring	SP	121
Delamar/Pahroc	ΜΩ		Stone Cabin	\mathbf{ST}	
Dry Lake	DI.	95	White River	WR	398
Garden	GN	110			
			TOTAL SHELTERS		1398
			TOTAL VALLEYS		6
			TOTAL ASCS		-



Best 1150 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas, Nevada only R) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water 20-16)

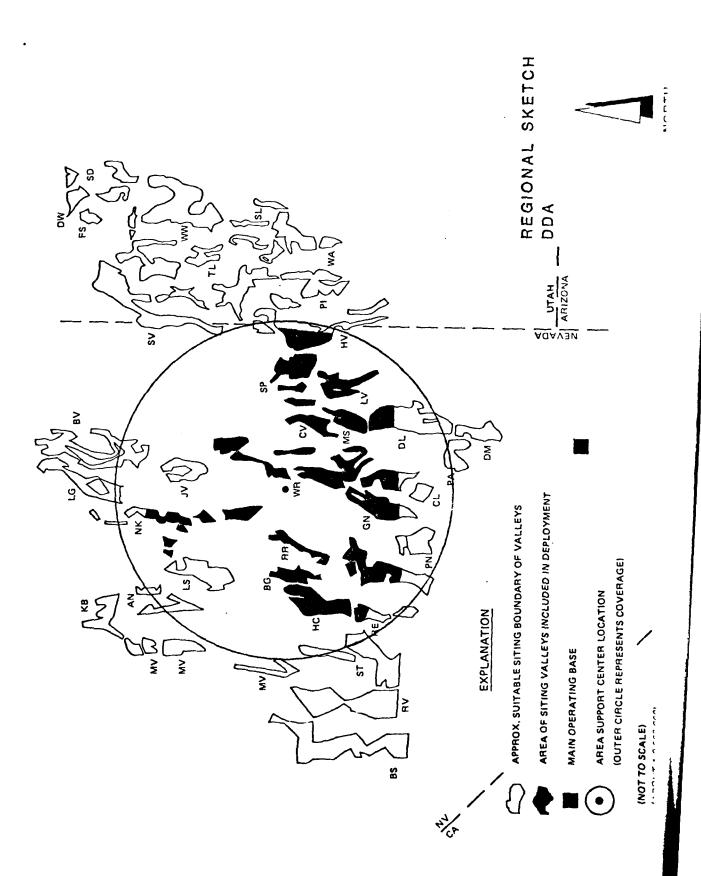
VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway Fish Springs Flat	DW		Hamlin Hot Creek	AH OH	312
Pine	PI		Jakes	λΩ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SI		Lake	ΓΛ	286
Snake	SV		Little Smoky	LS	
Tule	11		Long	P.G	
Wah Wah	WA		Monitor	MV	
Whirlwind	WW		Muleshoe	WS	122
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	CA	118	Reveille	RE	
Coal	CL		Spring	SP	182
Delamar/Pahroc	ΜQ		Stone Cabin	ST	
Dry Lake	Dľ	142	White River	WR	398
Garden	NS				
					1560
			TOTAL VALLEYS		•
					-



 $E \otimes t$ 1150 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas, Nevada only C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water 20-16)

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE-VIATION	NUMBER OF SHELTERS USED
Dugway	MQ		Hamlin	НΛ	115
Fish Springs Flat	FS		Hot Creek	HC	66
Pine	PI		Jakes	λC	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SI		Lake	ΓΛ	94
Snake	SV		Little Smoky	LS	
Tule	TL		Long	ĽĠ	
Wah Wah	WA		Monitor	MV	
Whirlwind	WM		Muleshoe	WS	69
Antelope	AN		Newark	NK	77
Big Sand Springs	BG	57	Penoyer	PN	24
Big Smoky	BS		Railroad	RR	213
Butte	BV		Ralston	RV	
Cave	CV	70	Reveille	RE	22
Coal	CL	106	Spring	SP	89
Delamar/Pahroc	ΜQ		Stone Cabin	\mathbf{ST}	
Dry Lake	Dľ	68	White River	WR	191
Garden	QN	98			
			TOTAL SHELTERS		1380
			TOTAL VALLEYS		15

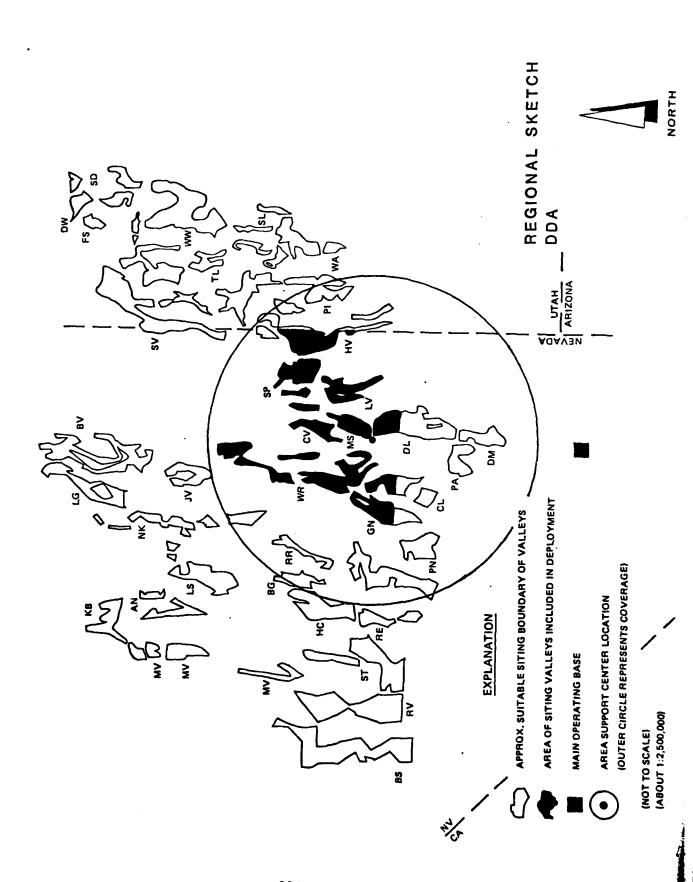
TOTAL ASCS



20-16) Rest 1150 shelters and 15 percent - Coyote MOB, avoid all MOAs and Restricted Areas, Nevada only D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

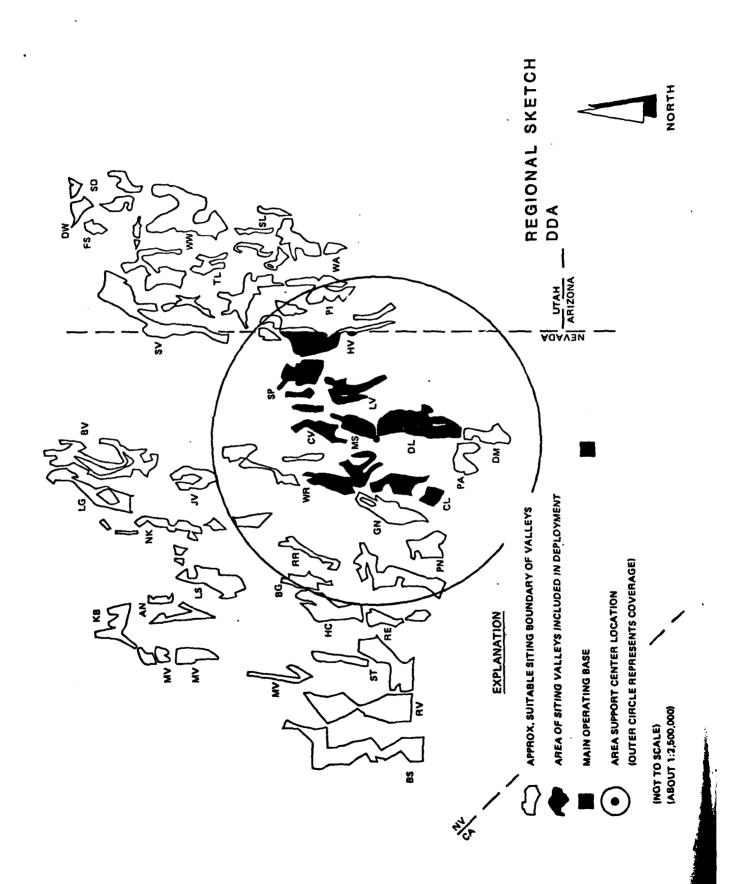
		O COOMIN		4	do do de la contraction de la	
VALLEY	VIATION	SHELTERS USED	VALLEY	VIATION	SHELTERS USED	
Dugway	DW		Hamlin	HΛ	174	
Fish Springs Flat	FS		Hot Creek	HC		
Pine	PI		Jakes	JV		
Sevier Desert	SD		Kobeh	KB		
Sevier Lake	SL		Lake	ΓΛ	141	
Snake	SV		Little Smoky	ĽS		
Tule	7.L		Long	PT		
Wah Wah	WA		Monitor	MΛ		
Whirlwind	WM		Muleshoe	MS	104	
Antelope	AN		Newark	NK		
Big Sand Springs	BG		Penoyer	PN		
Big Smoky	BS		Railroad	RR		
Butte	BV		Ralston	RV		
Cave	CA	105	Reveille	RE		
Coal	CL	159	Spring	SP	102	
Delamar/Pahroc	W.		Stone Cabin	\mathbf{ST}		
Dry Lake	70	134	White River	WR	286	
Garden	N.	129				
			TOTAL SHELTERS		1334	
			TOTAL VALLEYS		6	

TOTAL ASCS



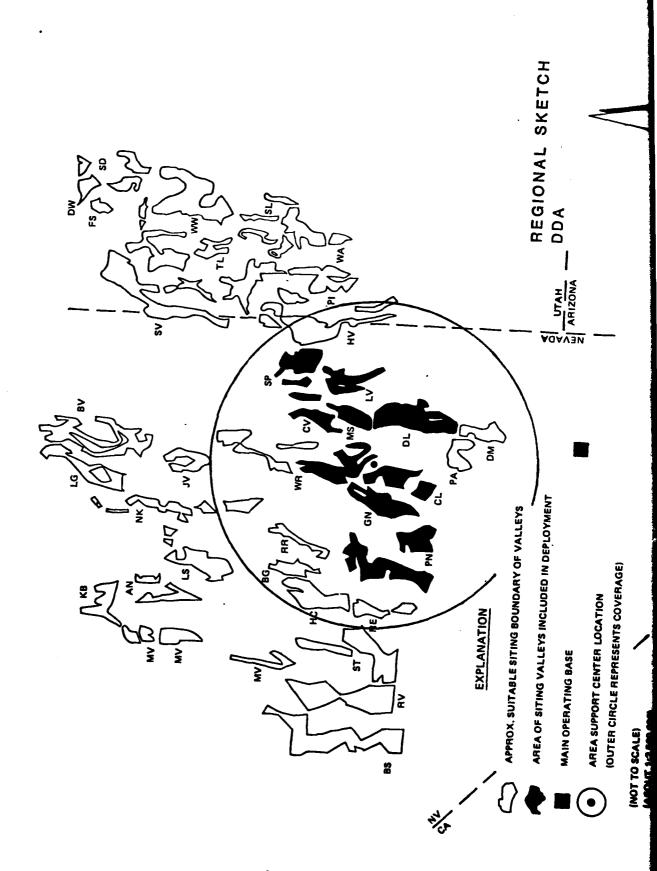
Best 1150 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys, Nevada only A) Horizontal shelters - 2/3 hex, 5200-foot spacing, 50 feet to both rock and water 20-18)

VALLEY	ABBRE-	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	MO		Hamlin	HV	208
Fish Springs Flat	FS		Hot Creek	HC	
Pine	ΡΙ		Jakes	λſ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	ΓΛ	191
Snake	SV		Little Smoky	LS.	
Tule	TL		Long	91	
Wah Wah	WA		Monitor	MV	
Whirlwind	MM		Muleshoe	WS	81
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	C	62	Reveille	RE	
Coal	CL	219	Spring	SP	121
Delamar/Pahroc	ΨQ		Stone Cabin	\mathbf{ST}	
Dry Lake	מר	284	White River	WR	265
Garden	CN				
					1448
					ထ
			TOTAL ASCS		_



B) Horizontal shelters - full hex, 5200-foot spacing, 50 feet to both rock and water Best 1150 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys, Nevada only 20-18)

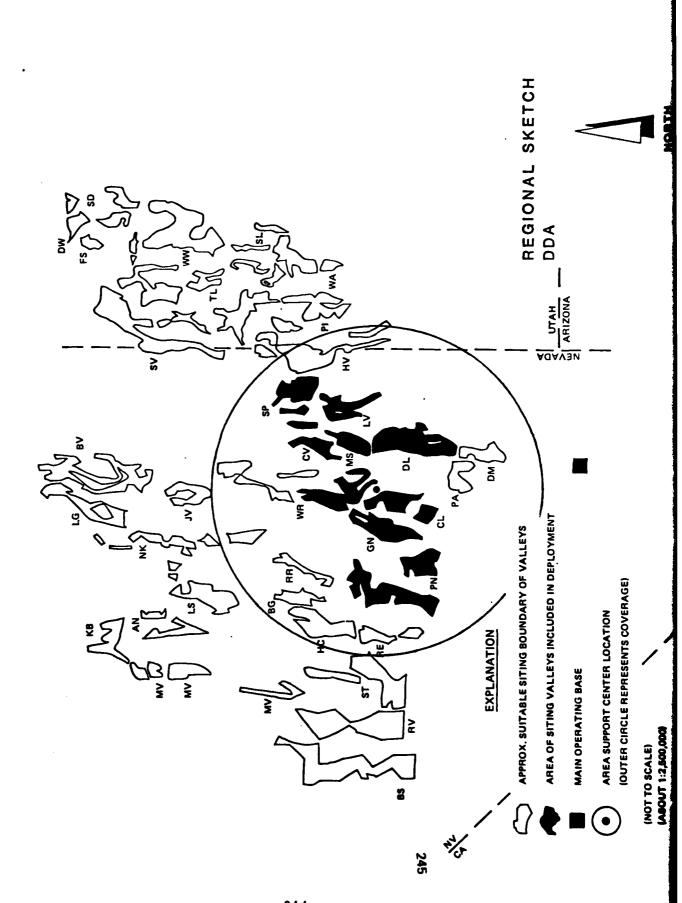
	ABBRE-	NUMBER OF		ABBRE-	NUMBER OF	
VALLEY	VIATION	SHELTERS USED	VALLEY	VIATION	SHELTERS USED	
Dugway	MQ		Hamlin	НУ		
Fish Springs Flat	FS.		Hot Creek	HC		
Pine	PI		Jakes	λC		
Sevier Desert	SD		Kobeh	KB		
Sevier Lake	\mathbf{SL}		Lake	ΓΛ		
Snake	SV		Little Smoky	ĽS		
Tule	TL		Long	ĽG		
Wah Wah	WA		Monitor	W		
Whirlwind	WM		Muleshoe	WS	122	
Antelope	AN		Newark	NK		
Big Sand Springs	BG		Peroyer	PN		
Big Smoky	BS		Railroad	RR		
Butte	BV		Ralston	RV		
Cave	C	118	Reveille	RE		
Coal	CL	328	Sr ing	SP		
Delamar/Pahroc	WQ.		Stone Cabin	\mathbf{ST}		
Dry Lake	DL	426	White River	WR	398	
Garden	ND					
					6	
			TOTAL SHELTERS TOTAL VALLEYS		. 592 . 5	
					. —	
			•			



Best 1150 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys, Nevada only C) Vertical shelters - 2/3 hex, 5200-foot spacing, 150 feet to both rock and water 20-18)

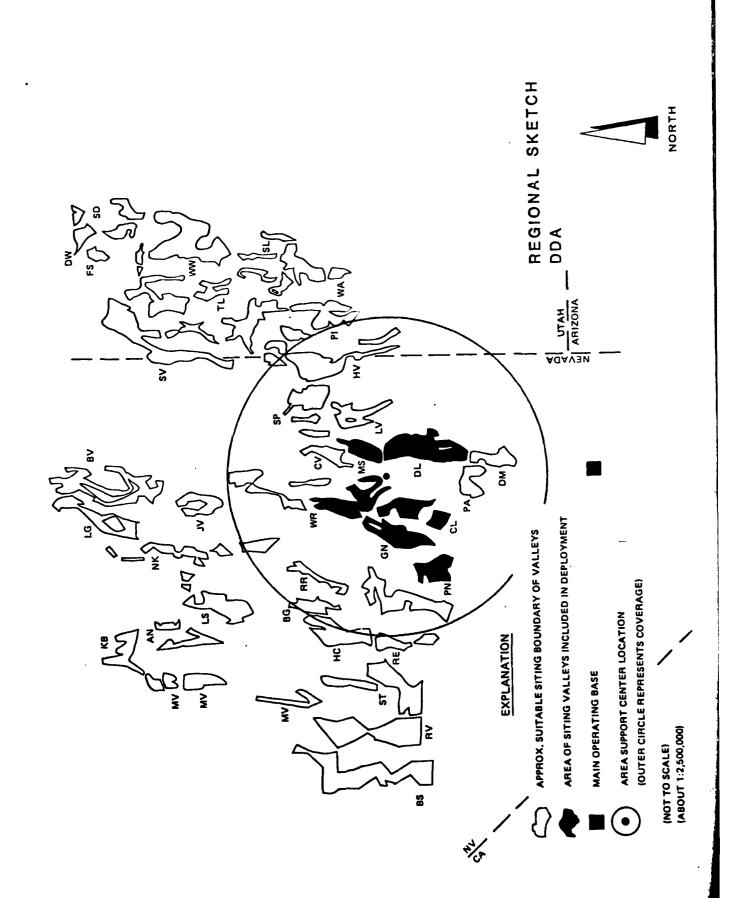
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VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	ΜQ		Hamlin	HV	
Fish Springs Flat	FS		Hot Creek	HC	
Pine	ΡΙ		Jakes	Jζ	
Sevier Desert	SD		Kobeh	KB	
Sevier Lake	SL		Lake	ΓΛ	46
Snake	SV		Little Smoky	rs	
Tule	TL		Long	57	
Wah Wah	WA		Monitor	W	
Whirlwind	MM		Muleshoe	MS	69
Antelope	AN		Newark	NK	
Big Sand Springs	BG		Penoyer	PN	146
Big Smoky	BS		Railroad	RR	164
Butte	BV		Ralston	RV	
Cave	S	70	Reveille	RE	
Coal	CL	201	Spring	SP	89
Delamar/Pahroc	ΨΩ		Stone Cabin	\mathbf{ST}	
Dry Lake	DĽ	267	White River	WR	127
Garden	GN	126			
			Sdam rans IvmOm		1330
			TOTAL VALLEYS		10
			TOTAL ASCS		



20-18) Best 1150 shelters and 15 percent - Coyote MOB, avoid Delamar/Pahroc valleys, Nevada only D) Vertical shelters - full hex, 5200-foot spacing, 150 feet to both rock and water

VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED	VALLEY	ABBRE- VIATION	NUMBER OF SHELTERS USED
Dugway	MQ		Hamlin	НУ	
Fish Springs Flat	សូ		Hot Creek	HC	
Pine	PI		Jakes	λſ	
Sevier Desert	SD		Kobeh	КВ	
Sevier Lake	\mathbf{SL}		Lake	ΓΛ	
Snake	SV		Little Smoky	rs	
Tule	TL		Long	57	
Wah Wah	WA		Monitor	ΑV	
Whirlwind	WW		Muleshoe	MS	104
Antelope	AN		Newark	NK	
Biq Sand Springs	BG		Penoyer	PN	219
Big Smoky	BS		Railroad	RR	
Butte	BV		Ralston	RV	
Cave	C		Reveille	RE	
Coal	CL	302,	Spring	SP	
Delamar/Pahroc	ωQ		Stone Cabin	\mathbf{ST}	
Dry Lake	DE	400	White River	WR	190
Garden	CN	189			
					•
			TOTAL SHELTERS		1404
			TOTAL VALLEYS		9
			TOTAL ASCS		-



APPENDIX A GLOSSARY

APPENDIX A

GLOSSARY

AFRCE-MX - Air Force Regional Civil Engineers - MX

ASC - Area Support Center

CMF - Cluster Maintenance Facility

DDA - Designated Deployment Area

Depth to Rock - Estimated depth to material with seismic velocity in excess of 7000 feet per second.

Depth to Water - Estimated depth to first encountered water.

DTN - Designated Transportation Network

MOA - Military Overflight Area

MOB - Main Operating Base

TRW - Defense and Space Systems Group of TRW Inc.

Valley Clustering - Shelters within one valley are interconnected by cluster road. Number of CMFs and barriers vary with valley size.

23:1 Clustering - Shelters are in clusters of 23 shelters. Each cluster has a CMF and barrier to the DTN.

APPENDIX B

MILITARY OVERFLIGHT AREAS (MOAs) AND RESTRICTED AREAS

APPENDIX B

MOAs and Restricted Areas

UTAH

Military Overflight Areas

Gandy Sevier A Sevier B

Restricted Areas

R-6402 R-6405 R-6407

NEVADA

Military Overflight Area

Desert

Restricted Areas

R-4806 R-4807 R-4808N R-4809

